KV-M2521U

SERVICE MANUAL

UK Model Chassis No. SCC-E23F-A





AE-1C CHASSIS

MODELS O	F TH	E S	AME	SERIES
KV-M2521U				
KV-A2112U/A251	2U			
KV-E2522U/E292	2U			

10W (Music)

Approx. 34kg

117W

SPECIFICATIONS

[KV-M2521U]

Television system Color system

Channel coverage

Picture tube

1

PAL

UHF: E21-E69 Trinitron tube Approx. 63 cm

(Approx. 59 cm picture measured diagonally)

110°-degree deflection

- 1 21-pin connector:

CENELEC standard including RGB input.

Front: - 3

O Video input phono jack O Audio input phono jack -3 S Video input 4pin DIN

Y: 1Vp-p ± 3dB 75ohm C: 0.3Vp-p ± 3dB 75ohm

Outputs

Inputs

21-pin connector: CENELEC standard

Earphones jack: minijack

Sound output

Power consumption

Dimensions

Weight

Supplied accessories

[RM-816]

Remote control system infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimentions

Weight Accessories supplied Approx. $75 \times 221 \times 23$ mm(w/h/d) Approx. 230.g (including batters)

Approx. $577 \times 523 \times 491$ mm (w/h/d)

RM-816 Remote Commander (1)

IEC designation R6 batteries (2)

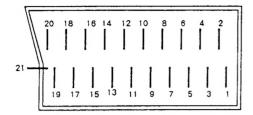
IEC designation R6 Commander

Design and specifications are subject to change without notice.



TRINITRON®COLOUR TV SONY

21-pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
i	Audio output	0.5Vrms/1kilohm or less
2	Audio input	0.5Vrms/10kilohms or more
		
3	Audio output	0.5Vrms/1kilohm or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0.5Vrms/10kilohms or more
7	8-input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14	Earth (blanking)	
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	1V to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	1Vp-p/75ohms
21	Screening plug	

4 pin connector (52)

Pin No	Signal	Signal level	
1	Ground		
2	Ground		
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V: % dB	
4	C (S signal) input	0.3V ± 3dB 75ohm positive	

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SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK

ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

1-1. SWITCHING ON/OFF

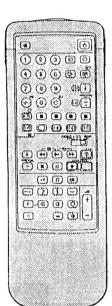
1-2. PRESETTING

After you have completed the basic preparation your TV is ready to be connected to the mains power supply ($220/240V_{-}$, 50Hz).



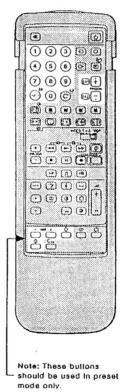
How to turn the TV on

Action	Result
Press © on the TV.	The TV will lurn on Note: If the screen remains blank, the TV may be in the standby mode. Press O to switch it on.



How to turn the TV off

A Temporarily	
Pross ଓ lo enter standby mode.	The TV will be in standby. To return to the TV mode press O.
B Completely	
Press © on the TV.	The TV will turn off



Before viewing the TV programmes you need to preset TV channels. There are 60 spaces available for storing these channels.

IV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on the TV. If you are unfamiliar with the channel numbers of the stations you wish sto preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset TV channels directly".

Slide open the full function side of the remote commander to reveal preset buttons.

How to preset channels automatically

Action	Result
Press ⇒ to enter the preset mode. →	01 c esc flashing.
Press PROGR +/- or the number buttons to select the programme number to which you want to preset channels. 1 2 3 3 4 4 5 6 6 7 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	03 c
Press EEE + or - once to search forward or backward for channels.	When a channel is luned in, the search will stop. Note If you want to skip a channel, pross (##) + or (##)
Press ♦ If you want to store the channel which is luned in. Press ♦ to exit preset mode without storing.	The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 4 to store the other channels.	

-4-

, all

.

λα... a

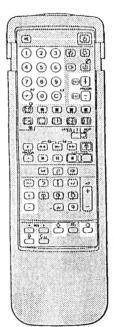
How to preset channels directly

000 BB

⊕ (†) (**⊕**

Ġ

Result
03 c aud flashing.
The programme number changes.
The Indication "C" ("S" for a cable channel) starts flashing on the display.
Of cet are Note If you have made a mistake the letter "X" will appear. Repeat step 4 again.
001 The channel is now slored and you have returned to TV mode.



How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

Actio	n		Result
1	Select a programme number you want to name by pressing the PROGR +/- or the number bullons	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	08 The selected programme number will appear.
2	Press Đ.	$\stackrel{\diamond}{\Box}$	01 number starts liashing.
3	Press C.	Ö	O8 con Indication will start that the station of the station name indication will start that the station of the
4	Press + or - to select alphabet, a number, space.		OB cin ec will appear sequentially.
5	Press O.	Ĉ	OB cal second column will start flashing.
6	Repeat steps 4 and	5 to sot each lot	tor.
7	Press O.	å	SOHY OB Stored and you have returned to TV mode.

How to tune in a channel temporarily

You can tune a channel in temporarily, if it has not been preset.

Action		Result	
1	Press C. For cable channels, press C twice.	The Indication "C" ("S" for cable channels) appears on the screen.	
2	Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	The channel is received, but it is not stored to any programme number.	

How to Skip Programmes

Using the PROGR +/~ buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.

Action	Result
Press to enter the preset mode.	O3 coa big liashing.
Select the programme number that you want to skip by pressing PROGR +/- or the number buttons.	O3 coa ac
3 Press Coo.	The lowest channel number appears under the programme number.
4 Press .	03 The channel is now stored and you have returned to TV mode.
Repeat sleps 1 to 4 to skip other programme	e numbers.

How to Fine Tune Manually

If the picture is distorted, you can fine tune the channel manually.

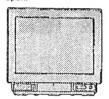
Action	Result
Press GBD + or - repeatedly until the picture looks normal.	The indication \leftarrow F \rightarrow appears on the screen.
Press → to enter the preset mode.	The programme number starts flashing.
Press O.	The fine tuning is stored.

5 . 1 gm

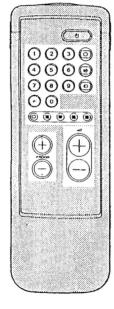
- - 15%

1-3. BASIC TV OPERATION

Note: Press 1 on door to



P→⊿→0 -



This section introduces you to the basic control functions which are available on the simple side of the remote commander.

How to Select Programmes

Before you can select programmes make sure that you have preset channels.

Action	Result
Press PROGR +/- or the number buttons. To select a doubledight number, use the -/ button. For example, if you want to choose 23, press -/, 2, and then 3.	04 The selected programme is displayed.

How to Adjust the Volume

Action	Result
Press △ + or ~.	The volume markers will appear.

How to Use Additional Functions

How to operate with the buttons on the TV

You can also select programmos and adjust the volume using the $P \rightarrow \Delta \rightarrow Q$ and $\rightarrow \bullet +$ +/- bullons on the front of the TV.

For operation, first press the P-1 - D button repeatedly so that the P flor programme) or a (for volume) indication appears on the screen, and then adjust with the →•+ +/- buttons.

Basic Teletext operation

Select:

The @ button to view the telelext.

The Dutton to request subtitles (p.888).

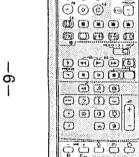
One of the coloured buttons for Fastext operation.

The O button to return to TV mode.

For details about teletext operation.

How to view the video input picture

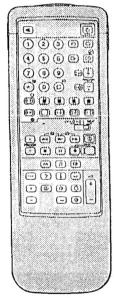
Press O. To return to the TV mode, press O. For further details.



(1) (2) (3) (9) (9) (4) (5) (6) (4) (8) 7 8 9 DF







How to use on-screen display and special sound features

You can enjoy the following convenient features.

How to	Action	Yo resume normal picture/sound
Display on-screen Indications	Press (9.	Indications disappear after some seconds
Display programme numbers	Press @ Iwice	Press 3 twice again.
Mute the sound	Press .	Press 4K again.
Set the aound to music listening position	Pross Π.	Press Л again.
Request the time	Press (D.	Pross (again.

How to adjust the picture and sound

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps.

For picture adjustment

To Adjust:	Press:	Then:	Result: (+)
Picture:			
Colour Intensity	•	G	More ← Less
Picture Contrast	0		More ← Less
Brightness	¢		Bright Dark
Hue (for NTSC only)	RiA		Reddish → Greenish
Sound:			
Bass	. 2	+	More ← Less
Treble	ł		More ← Less

To reset the picture and sound to factory set levels press →·←

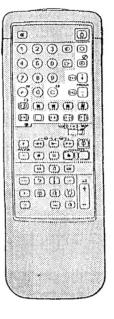
On the set:

Press -- +/- buttons simultaneously.

1-5. TELETEXT OPERATION

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the bultons indicated in green on the full side of the Remote Commander.

How to View the Teletext



Action	Result
Select the channel which carri the teletext service you wish to	
2 Pross ©.	If the teletext signal is not broadcast, then is displayed.
Input three digits for the page number using the number bull Note If you make a mistake, type in three digits, then re-enter the correct page number.	appear in a few seconds.
To return to the TV mode. Press ©.	
To change the telelext channel first press O to return to the	els TV mode, then repeat steps 1 to 3.

Note

If the signal of the TV channel is weak, telefoxt errors may often occur.

How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)	
Request the Index page.	Pross ED (INDEX).	The index page appears.	
Request the subtitle page (p888).	Press O.	The subtitle page is layed (p888).	
Access the next or preceding page.	Pross @ (PAGE +) or @ (PAGE -).	The next or preceding page appears.	

How to	Action	Result	
Superimpose the teletext display on the TV programme.	Press 19 once if you are in text mode, or press 19 twice if in TV mode. To return to the normal teletext	The teletext displays are superimposed on the TV programmes.	
	display press @ again.	programmes.	
Prevent a teletext page from being updated or changed.	Press @ (HOLD). To resume normal teletext reception, press @ .	The HOLD symbol (FB) appears on the screen and the chosen sub-page is held until you cancel.	
		Cancer.	
Enlarge the teletoxt display.	Press @ once to enlarge the upper half. Press twice to enlarge the lower half.	The upper half is under the upper half is enlarged.	
	Press again to restore the normal display.		
Reveal concealed information	Press & (REVEAL).	The Information Is	
(e.g. answers to a quiz).	Press again to conceal the information.	rovealed.	
Watch the TV programme while walling for a requested page	1. Request a new page.	The numbers are entered.	
to_be displayed.	2. Press ❷ (TEXT CL).	The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen.	
	When the requested page has been captured, the page number remains and the other data disappears.	F201	
	4. Press @ to view this page.	The requested page is displayed.	
Have a requested page displayed	1. Request a desired page.	The requested page is displayed.	
at a pre-determined time.	2. Press @ (TP ON).	"T"" appears at the bottom of the screen or "0001" at the top.	
	Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM.)	The time is entered on the screen	
	4. Press © (TEXT CL) to watch the TV programme until the requested time.	The request is cancelled. To resume TV mode press O.	
	To cancel the request Display the teletext page, then press & (TP OFF).		

2 4 4.

Some of the features may not be available depending on the Teletext service.

1-6. OPERATION CONNECTIONS/OPERATIONS

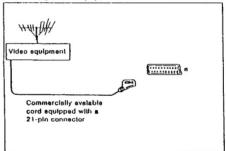
You can connect video equipment such as VTRs and video disc players to the TV..

How to connect video equipment to the TV

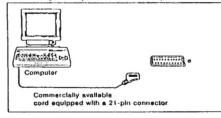
This TV has one input connector.

Connector	Acceptable Input signal
1-8	Normal Video and RGB-Signal
-80,0,-0 vorne am Gerát	Normal Video- and Video-S-Signal

Connecting video equipment

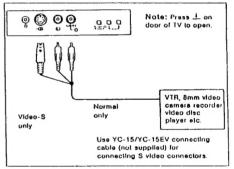


Connecting a computer with RGB output



Connecting video equipment temporarily

It is convenient to use the front connectors when connecting squipment such as a vide camera recorder.



To connect a VTR using the 'Y terminal Connect the aerial output of the VTR to the aerial terminal Y of the TV.

S video input (Y/C input)

Video signals may be separated into Y (tuminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with an S video input jack through which these separated signals can be input directly.

If the picture or the sound is distorted Move the VTR away from the TV.

છ

How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

Operation

Action	Result	
Press © repeatedly to select the desired input.	-61	Symbol for the selected input appears. (See the table below.)
To return to the TV mode,	press the O button.	

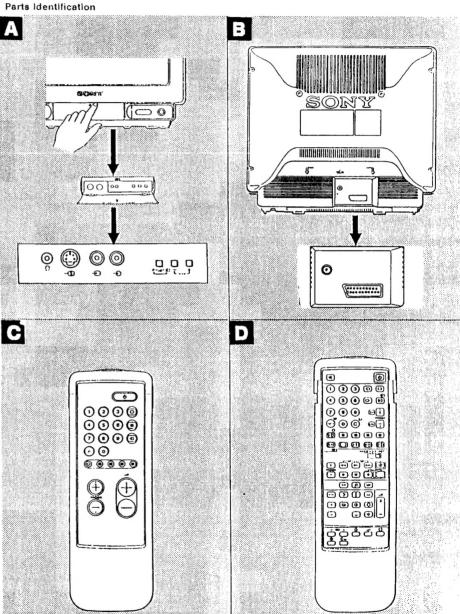
Input modes

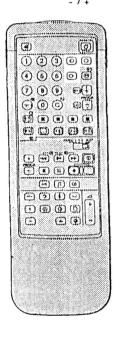
Symbol	Result	
Đ1	Audio/video input through the -8 connector.	
Ö	RGB Input through the -8 connector.	
Đ 3	Audio/video input through € and € jacks on the front.	
193	S video input through the -D connectors on the front (4-pin connector).	
You can also sele	act the input mode using the $P \triangle \rightarrow \bigcirc$ button on the TV.	

In this case, first select E, and then press +/- buttons to select the input.

1-7. ADDITONAL INFORMATION







P→⊿→ ©

This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

A TV set - F	ront	
Sign	Name	Refer to page
Φ	Main power switch	
ტ	Standby Indicator]
Ω	Headphones Jack (stereo minijack)	
[-⊿-Đ	Function selector (Programme/ volume/input)	
- / + 	Adjustment buttons for function selector	

TV set — Rear		
Sign	Name	
-8	21-pin Euro-AV connector (RGB/ video Input, TV output	
75	Aerial terminal (IEC type)	

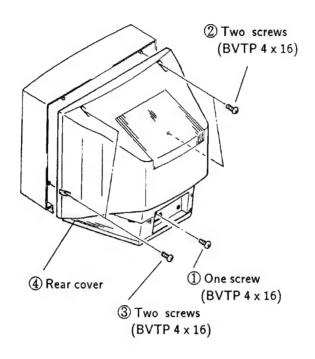
	(ico ijpej	
C Remote Co	mmandar — simp	le side
Sign	Name	
Ð	Input mode selector	
€	Telelext button	
0	TV mode selector	
ტ	Standby bullon	
1,2,3,4,5, 6,7,8,9, and 0	Number bullons	
-/	Double-digit entering buiton	
⊿ +/-	Volume control button	
PROG +/-	Programme selector	

D Remote Co	mmander – full fu	nction side
Sign	Name	
₫ \$	Mule on/off button	
ტ	Standby button	
1,2,3.4,5, 6,7,8,9, and 0	Number buttons	
Ð	Input mode selector	
0	TV power on/TV mode selector button	
●	Teletext button	
n	Music button	
-/	Double-digit entering button	
С	Direct channel entering button	
Ø	Request time display	
000000 000000	Teletext operation buttons	
Œ	On-screen display bullon	
→• +	Picture and sound adjustment reset button	
⊿ +/-	Volume control	
PROG +/-	Programme selector	
DO 0 0 12 × 1-1-	Picture and sound controls	
VIDEO 1/2/3, MDP	Video equipment selector	
44FFF	Video equipment operation buttons	
Coo	Programme number clear button	
-5	Channel preset button	
- (11) +	Tuning buttons	
\Q	Channel store button	
O	Station label button	

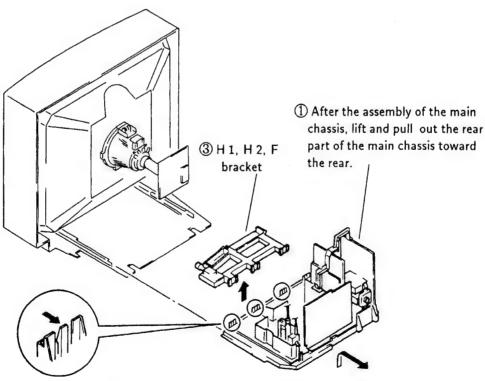
2 3 7 1

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

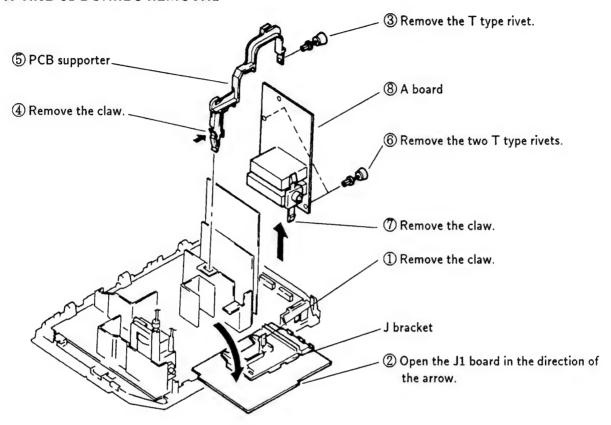


2-2. CHASSIS ASSEMBLY REMOVAL

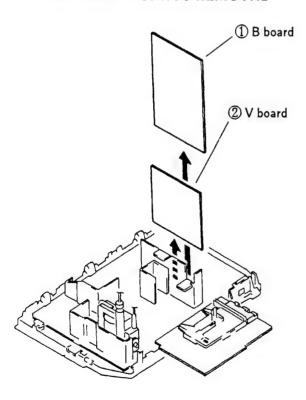


② Push the three claws of the main chassis in the direction of the arrow and remove the H1, H2, F bracket upwards.

2-3. A AND J1 BOARDS REMOVAL



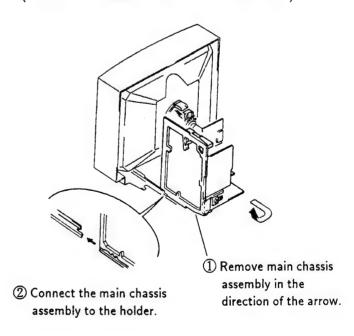
2-4. B AND V BOARDS REMOVAL



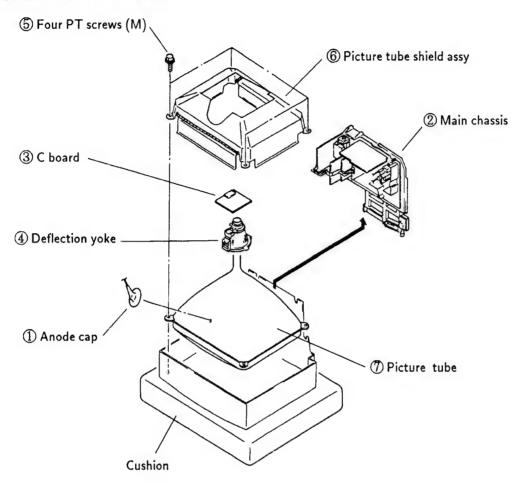
Note: 10 pin extension cable (S-0945-001-0)

2-5. SERVICE POSITION

Remove the H 1, H 2, F bracket from the main chassis assembly and then perform the following servicing.
 (Refer to 2-2. CHASSIS ASSEMBLY REMOVAL.)

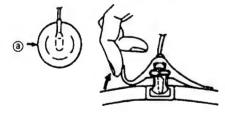


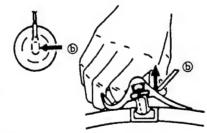
2-6. PICTURE TUBE REMOVAL

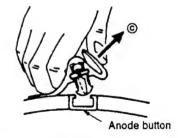


REMOVAL OF ANODE-CAP

REMOVING PROCEDURES





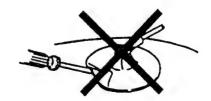


- direction indicated by the arrow @.
- 1 Turn up one side of the rubber cap in the 2 Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).
- 3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

• HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps!
 - A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECITON 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:
 - ① Contrast80%

(or remote control normal)

Brightness50%

- Carry out the following adjustments in this order:
 - Beam landing
 - Convergence
 - Focus 3.
 - White balance

Note: Testing equipment required

- 1. Color bar/pattern generator
- Degausser
- DC power supply
- Digital multimeter
- Oscilloscope

Preparations:

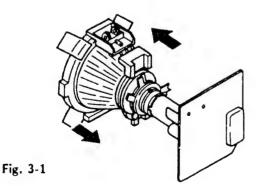
- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

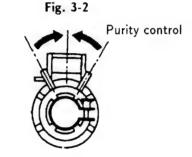
3-1. BEAM LANDING

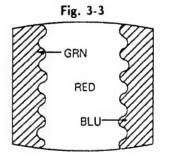
- 1. Input the white signal with the pattern generator. Contrast normal **Bightness**
- 2. Position neck ass'y as shown in Fig 3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(See Figures 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
- 6. Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)







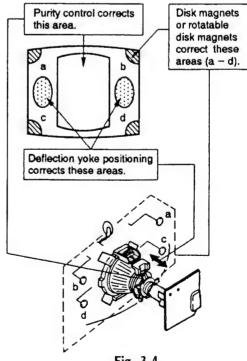


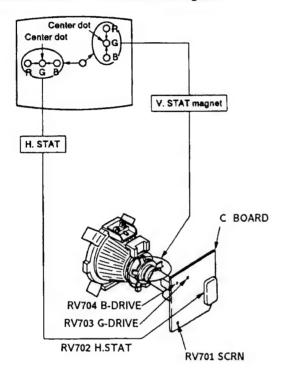
Fig. 3-4

3-2. CONVERGENCE

Preparations:

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

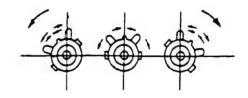
(1) Horizontal and vertical static convergence



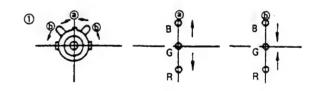
- (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.

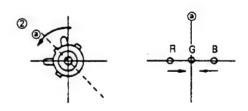
 (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

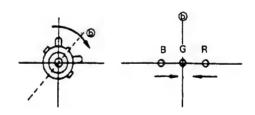
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

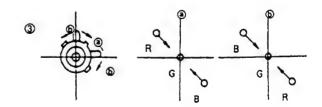


4. If the V.STAT magnet is moved in the direction of the ② and ⑤ arrows, the red, green, and blue points move as shown below.

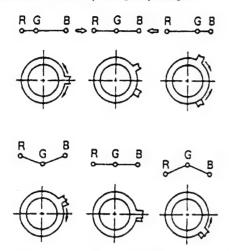




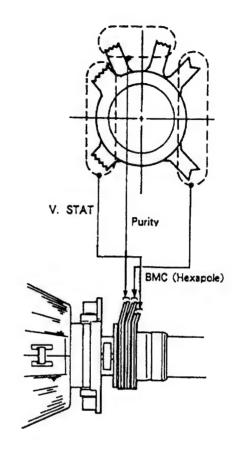




• Operation of BMC (Hexapole) Magnet



 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

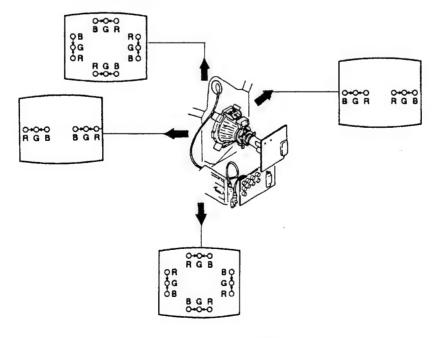


(2) Dynamic convergence adjustment Preparations:

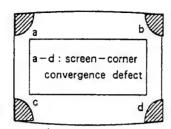
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.

- 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
- 4. Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.

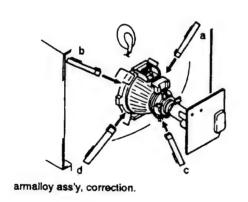


reen corner convergence



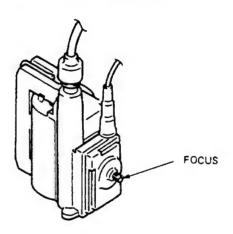


stall the permalloy assembly for the section ith faulty.



3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

[Screen G2 setting]

- . Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
- 4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

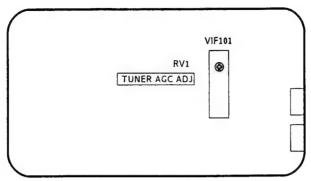
[White balance adjustment]

- 1. Input an all-white signal from the pattern generator.
- 2. Set the picture brightness and color controls to their normal levels.
- 3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENT

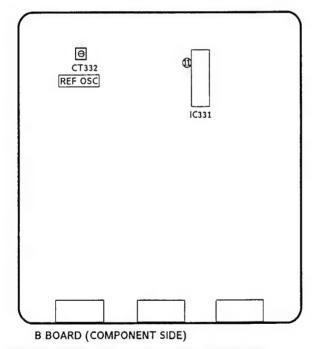


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101, RV1)

- 1. Align with an appropriate signal between stations.
- Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

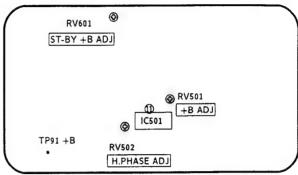
4-2. B BOARD ADJUSTMENT



REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

- 1. Input a PAL color bar signal.
- 2. Ground pin (1) of the IC331.
- 3. Adjust CT332 to obtain synchronization.

4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

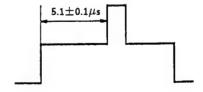
- 1. Connect the digital multimeter to TP91.
- 2. Adjust RV501 to obtain 135 ± 0.2 V.

ST-BY +B ADJUSTMENT (RV601)

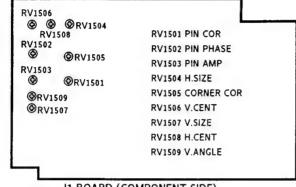
- 1. Put the system into \circlearrowleft standby mode (remote commander).
- 2. Connect the digital multimeter to TP91.
- 3. Adjust RV601 to obtain $135 \pm 3V$.
- 4. Take the system out of \circlearrowleft standby mode (remote commander).

H.PHASE ADJUSTMENT (RV502)

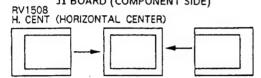
- 1. Input a PAL color bar signal.
- 2. Set the picture and brightness controls to their normal levels.
- 3. Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (I) (SCP) of IC 501.
- 5. Rotate RV502 to adjust to $5.1 \pm 0.1 \mu s$.



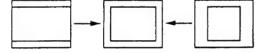
4-4. J1 BOARD ADJUSTMENTS



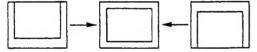
J1 BOARD (COMPONENT SIDE)



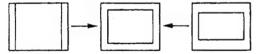
RV1504 H. SIZE (HORIZONTAL SIZE)



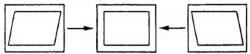
RV1506 V. CENT (VERTICAL CENTER)



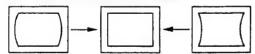
RV1507 V. SIZE (VERTICAL SIZE)



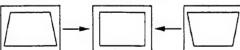
RV1509 V. ANGLE (VERTICAL ANGLE)



RV1503 PIN AMP (PINCUSHION AMPLIFIER)



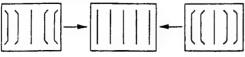
RV1502 PIN PHASE (PINCUSHION PHASE)



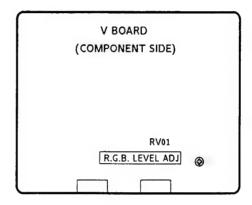
RV1501 PIN. COR (PINCUSHION CORRECT)



RV1505 CORNER. COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENT



RGB LEVEL ADJUSTMENT (RV01)

- 1. Maximize the picture setting.
- 2. Adjust RV01 so that the RGB output is 0.75V.

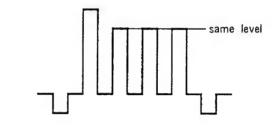
4-6. SECONDARY ADJUSTMENTS

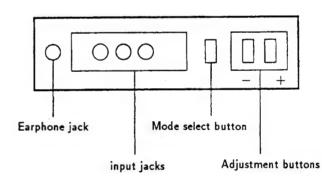
SUB BRIGHTNESS ADJUSTMENT

- 1. Set the system to receive a test pattern.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Switch off the power.
- While depressing the adjusting buttons + and
 simultaneusly, turn on the power. (SUB mode is obtained)
- 5. Minimize the O contrast setting.
- 6. Adjust the ☆ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
- 7. Depress the \$\rightarrow\$ (store) button of the remote commander.(SUB mode is released)If there is no test color pattern
- 1. Set the system to receive a color pattern.
- Press →•← on the remote commander to put the system into normal mode.
 Set the color to its normal state.
- 3-5. Steps are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the Drightness control so that the blue barely glows.
- 7. Same as step 7 above.
- Press → ← on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

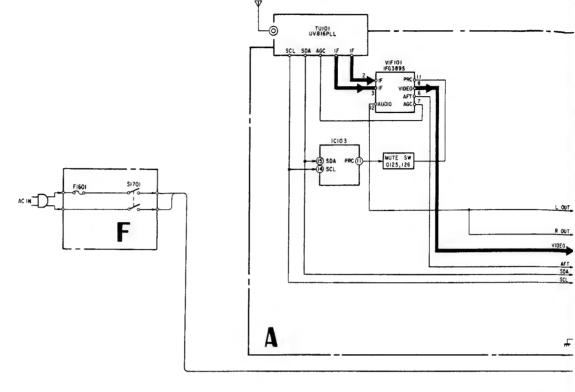
- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- 4. While depressing the adjustment buttons + and simultaneusly, turn on the power. (SUB mode is obtained).
- 5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
- 6. Depress the \diamondsuit (store) button of the remote commander. (SUB mode is released)

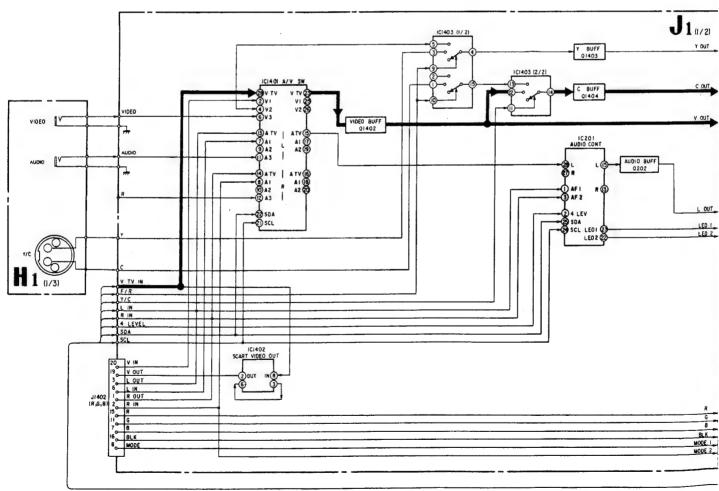


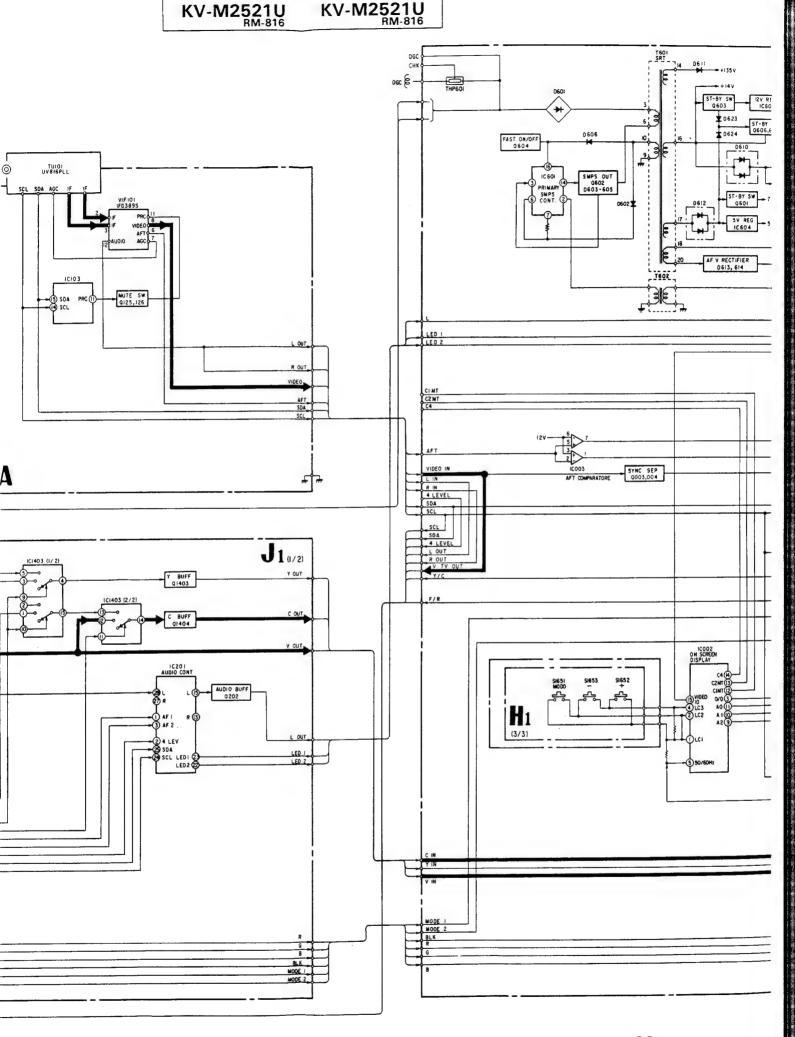


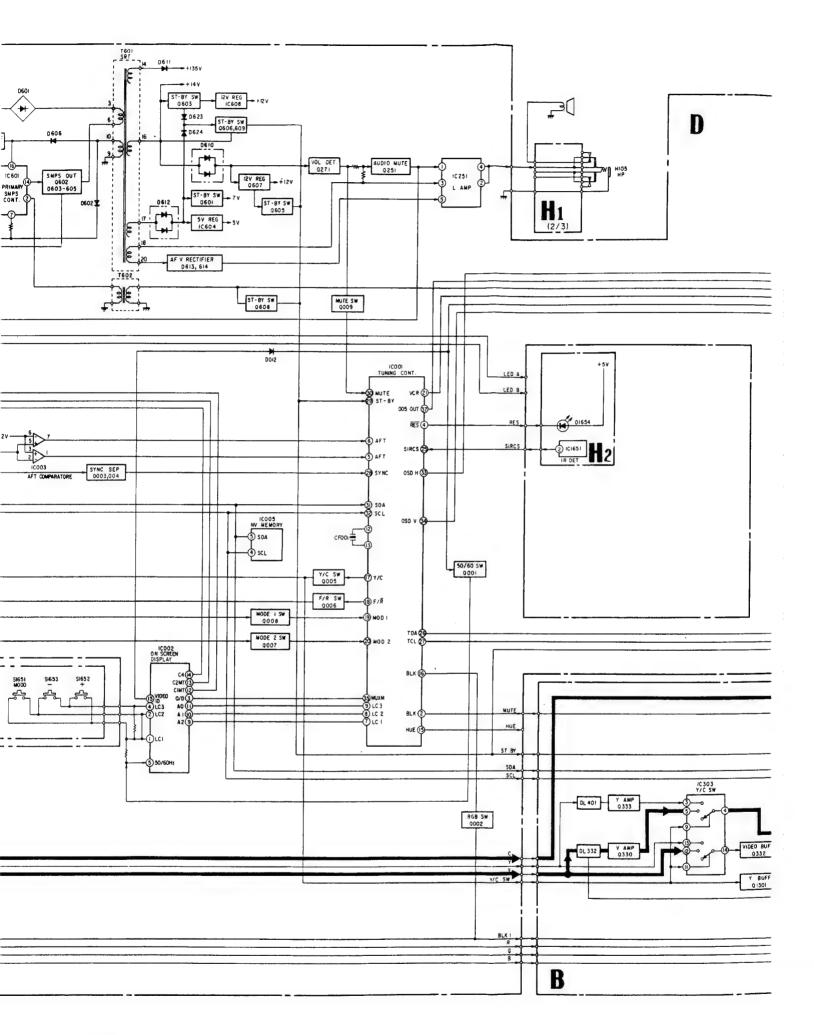
SECTION 5 DIAGRAMS

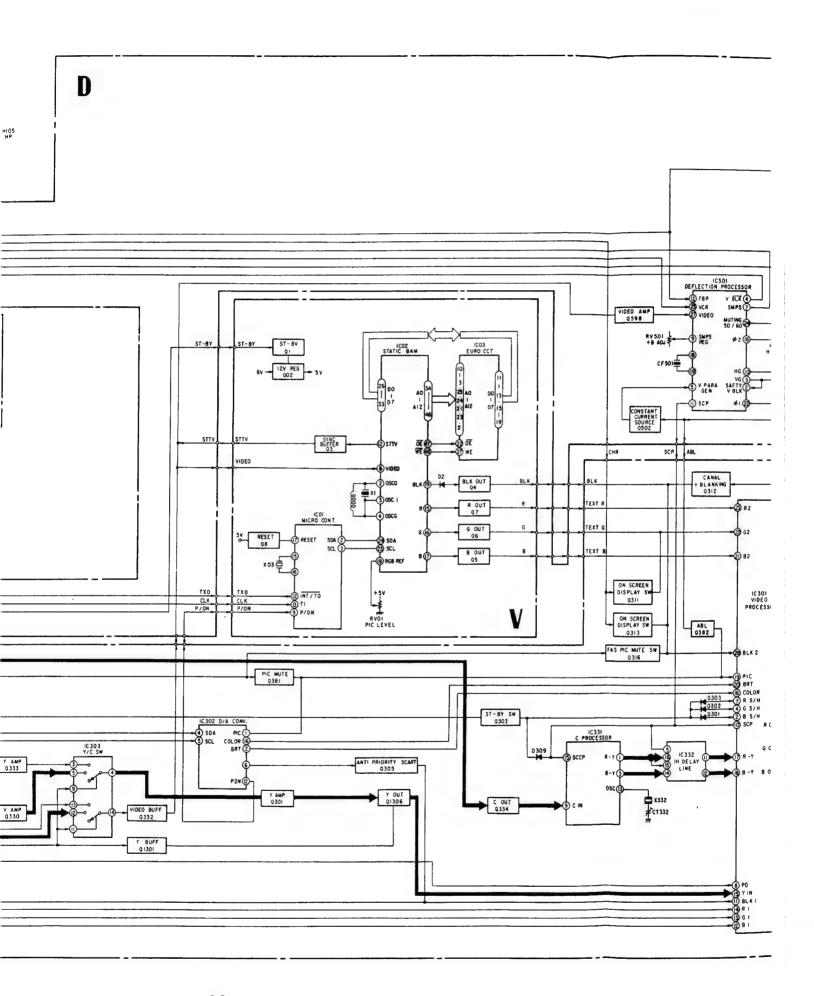
5-1. BLOCK DIAGRAM



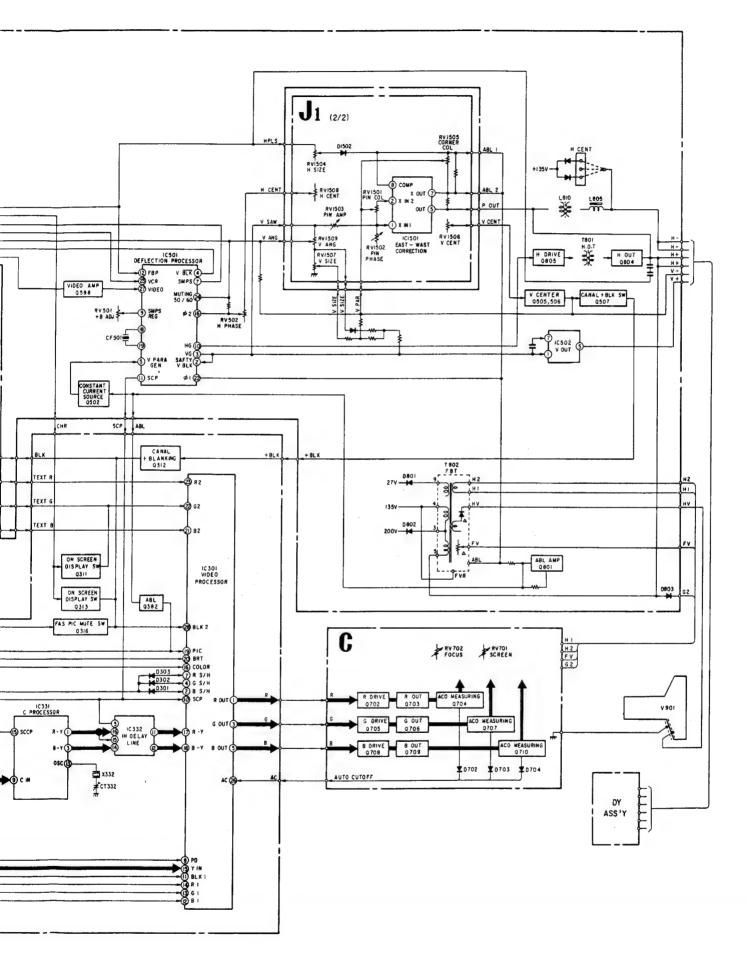




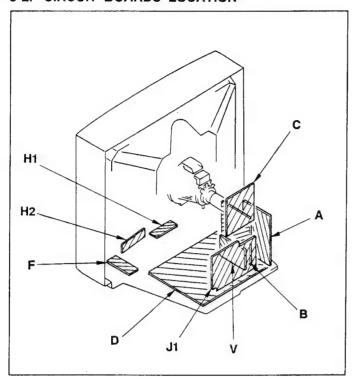




521U RM-816



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS - Conductor Side -

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms. $k\Omega = 1000 \Omega$, $M\Omega = 1000 K\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4 W

- : nonflammable resistor.
- △ : internal component.
- _____: panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \perp : earth-ground.
- ; earth-chassis.
- # : no mounted.

Note: The components identified by shading and mark

A are critical for safety. Replace only with
part number specified.

Reference information

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE : RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT : RW NONFLAMMABLE WIREWOUND

: X ADJUSTMENT RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR : TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

Readings are taken with a color-bar signal input.

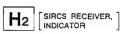
- Readings are taken with a $10M\Omega$ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage varietions may be neted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.

• : B+ bus.

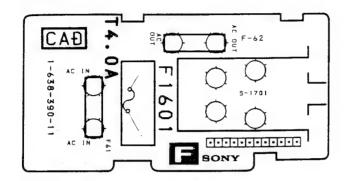
• : signal path (RF).



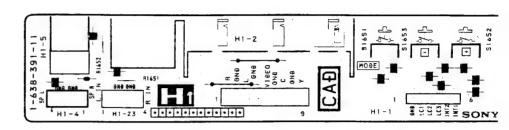
H1 CONTROL SW, AV INPUT, HEADPHONE



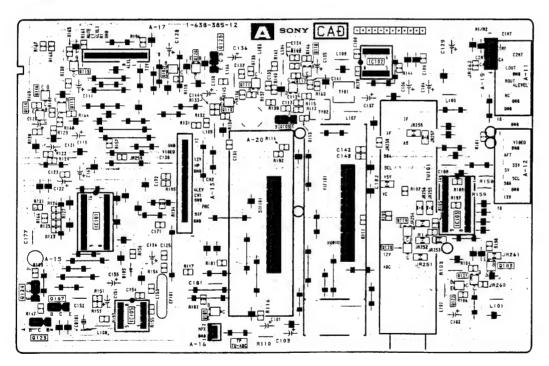
- F Board -



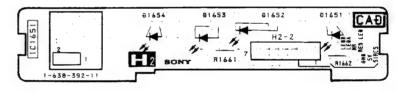
- H1 Board -



- A Board -

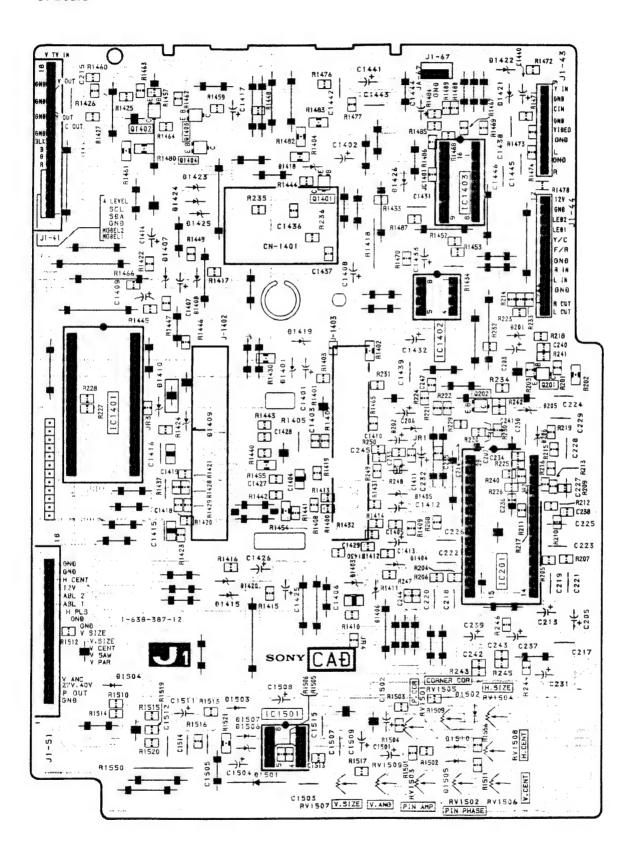


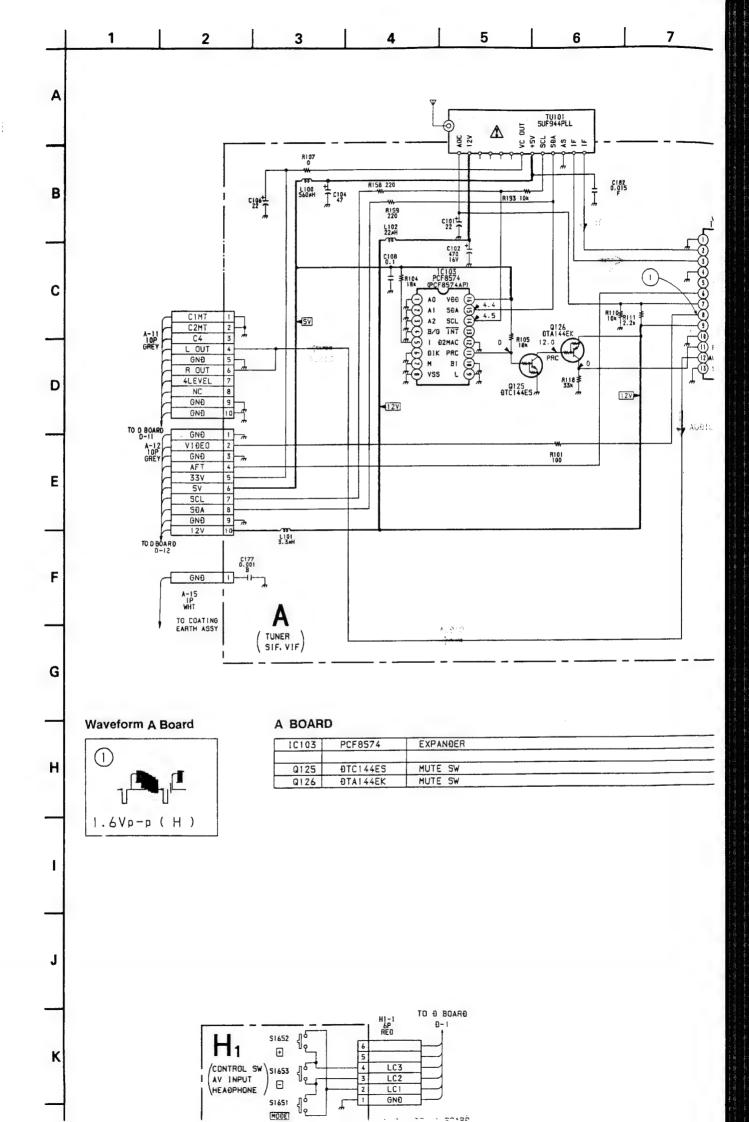
- H2 Board -

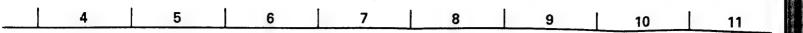


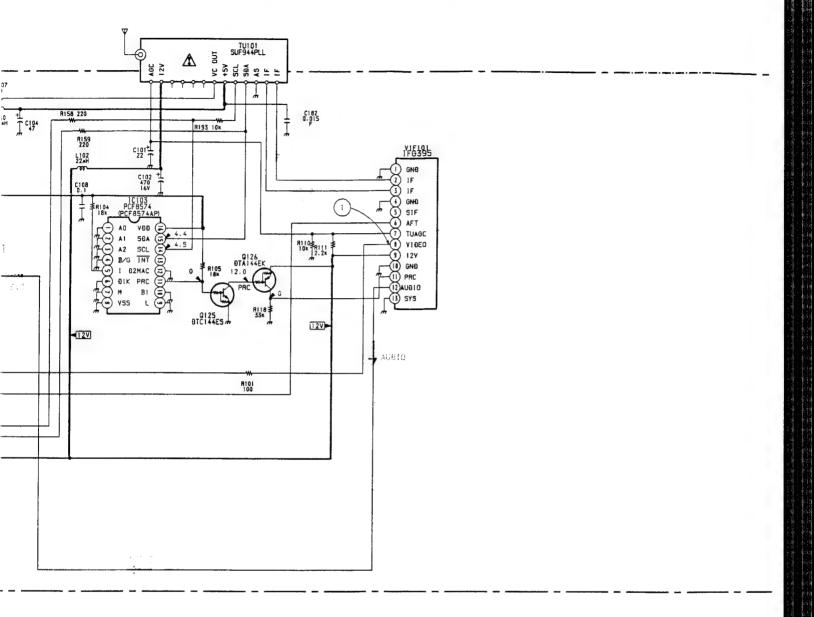
AUDIO CONTROL, AV INPUT
Y/C INPUT, SCART VIDEO OUT
EAST-WEST CORRECTION

- J1 Board -



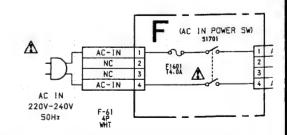


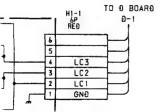


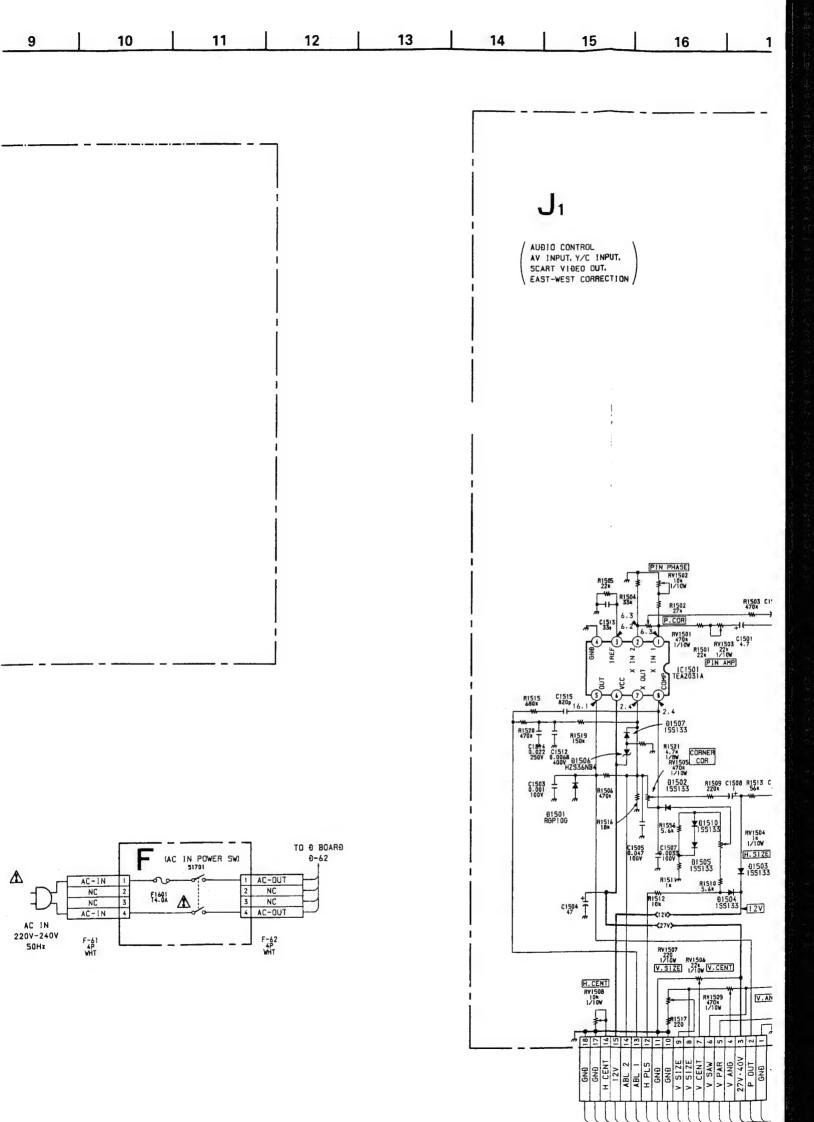


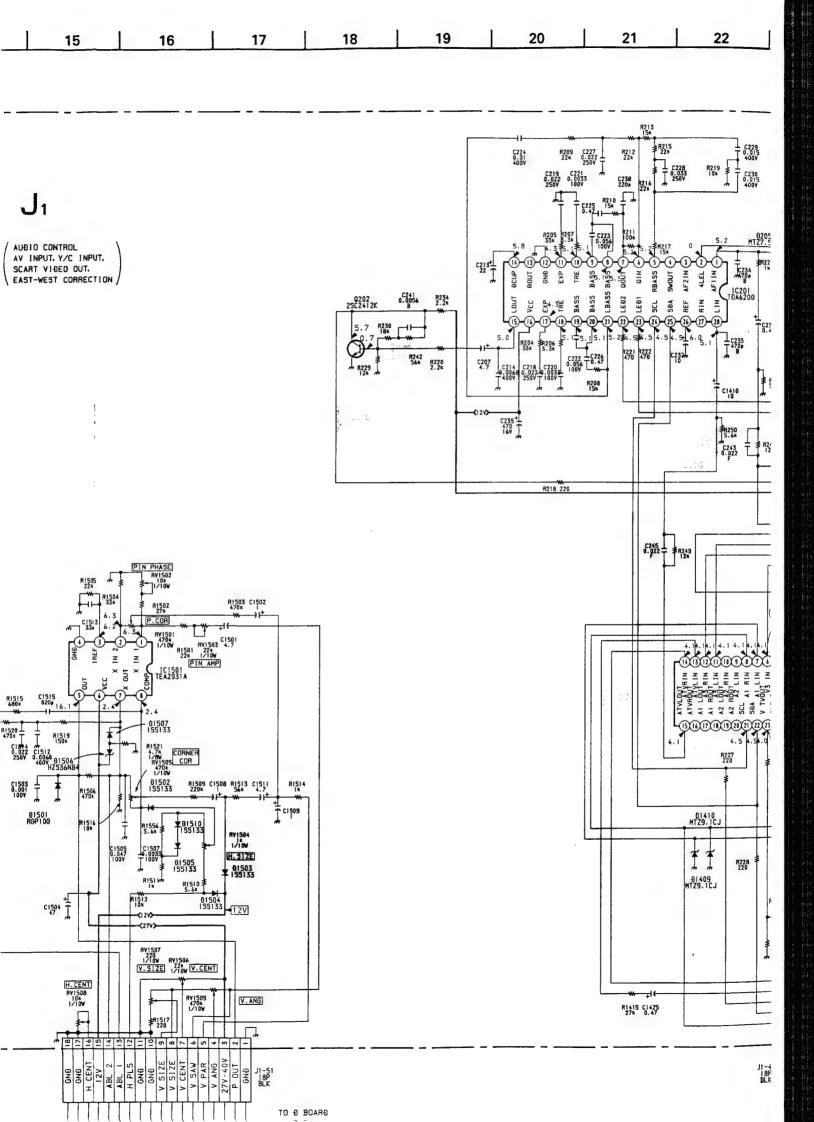
ARD

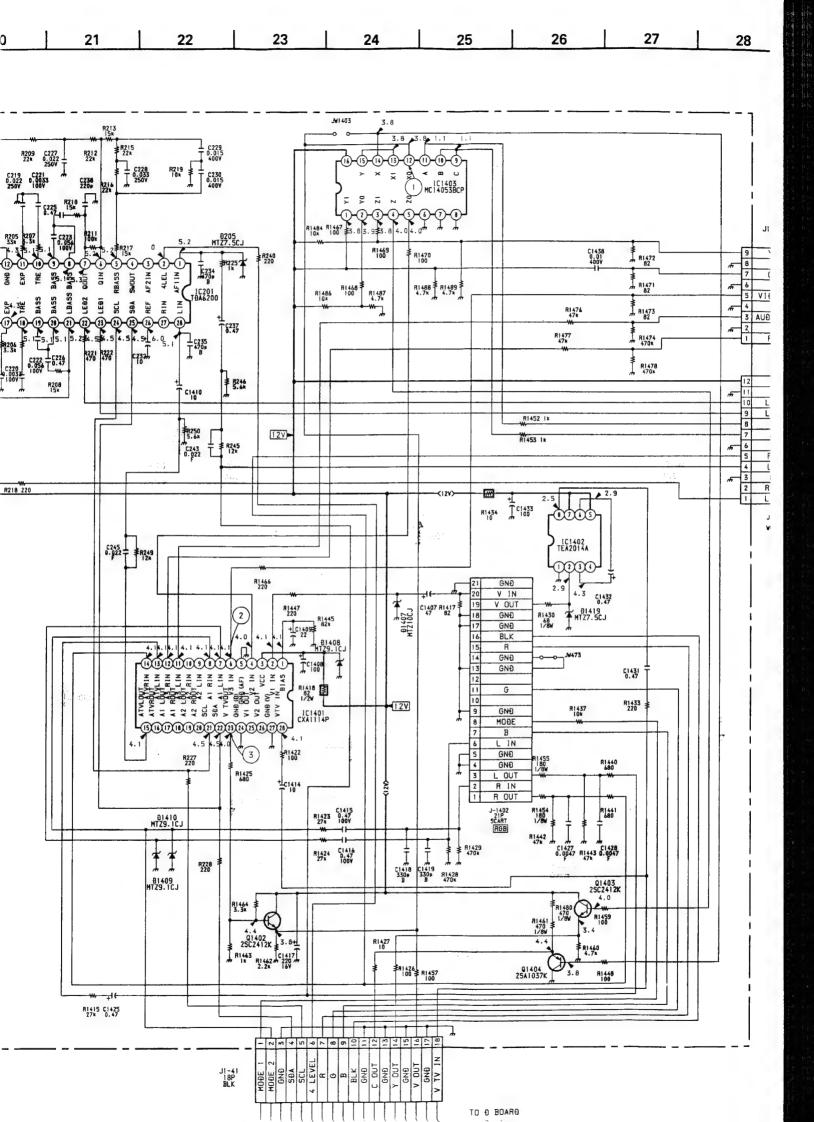
3	PCF8574	EXPANDER	
5	DTC144ES	MUTE SW	
4	ATA144FK	MUTE SW	

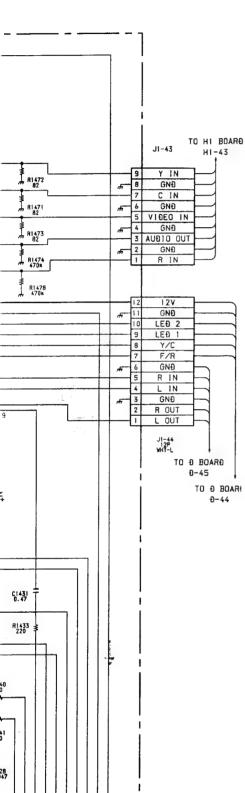








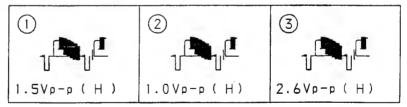


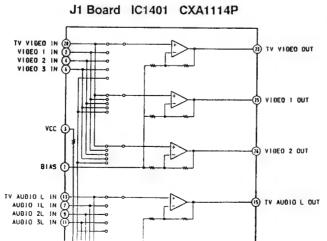


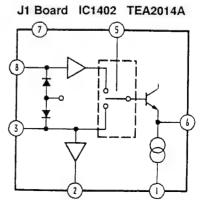
J1 Board

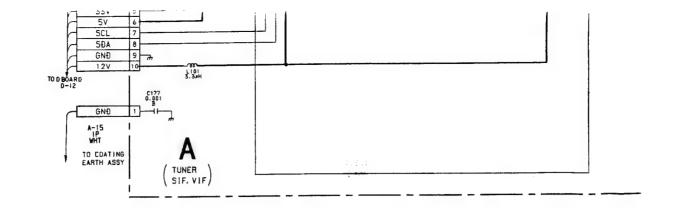
10201	TĐA6200	AUÐIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIĐEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q202	25C2412K	AUÐIO BUFF
Q1402	2SC2412K	VIĐEO OUT BUFF
01403	25C2412K	Y OUT BUFF
Q1404	25A1037K	C OUT BUFF
Đ205	MTZ7.5CJ	PROTECT
Ð1407	MTZ10CJ	PROTECT
£1408	MTZ9.1CJ	REG
Ð1409	MTZ9.1CJ	PROTECT
Ð1410	MTZ9.1CJ	PROTECT
Ð1419	MTZ7.SCJ	PROTECT
Ð1501	RGP10G	PROTECT
Ð1502	155133	DECOUPLING H SIZE
Ð1503	155133	CLIPPING V PARABORA
Ð1504	155133	CLIPPING H PULSE
Ð1505	155133	REG
£1506	HZS36NB	PROTECT
£1507	155133	PROTECT
Ð1510	155133	REG

Waveforms J1 Board









Waveform A Board

E

F

G

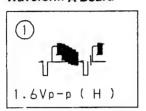
Н

M

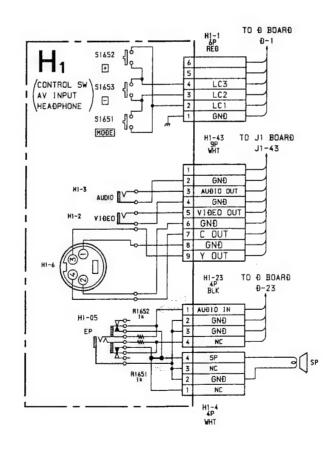
N

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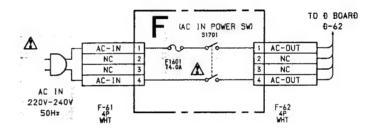
A BOARD

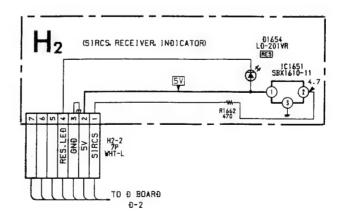


IC103	PCF8574	EXPANDER	
0125	ĐTC144ES	MUTE SW	
Q126	ĐTA144EK	MUTE SW	



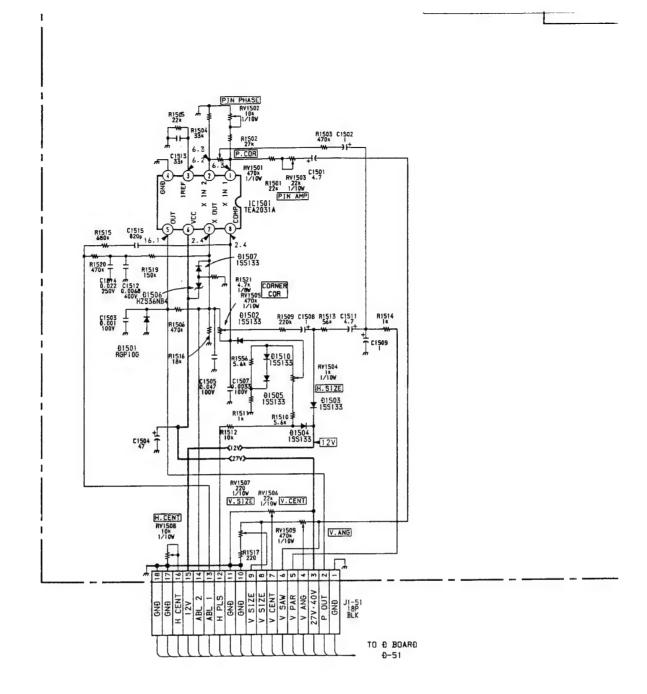


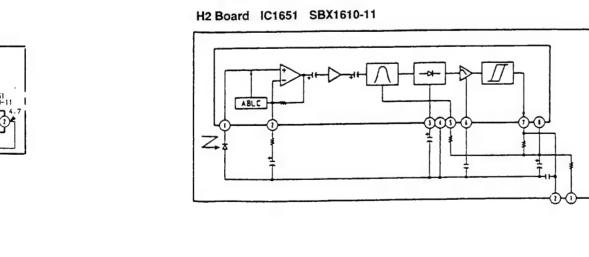


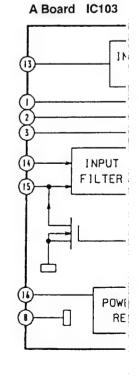


H2 Board

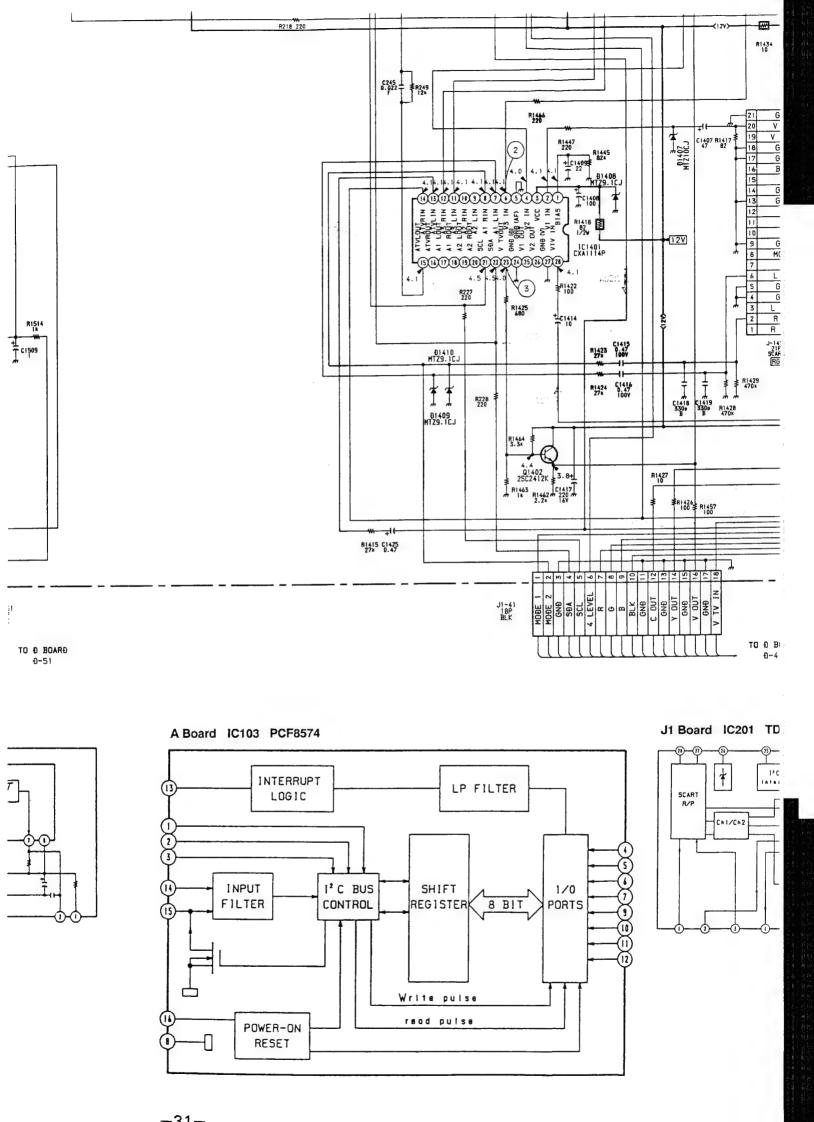
101651	SBX1610-11	INFRARED RECEIVER	
Ð1654	L-0-201VR	STAND-BY INDICATOR	

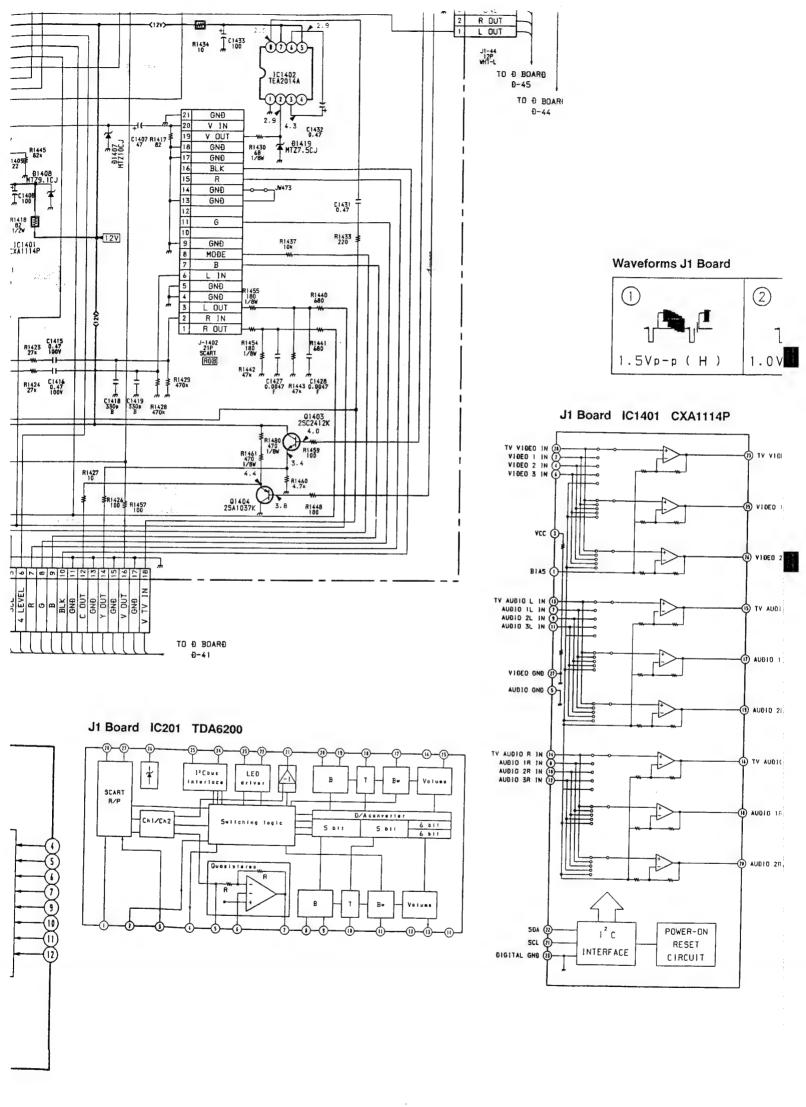


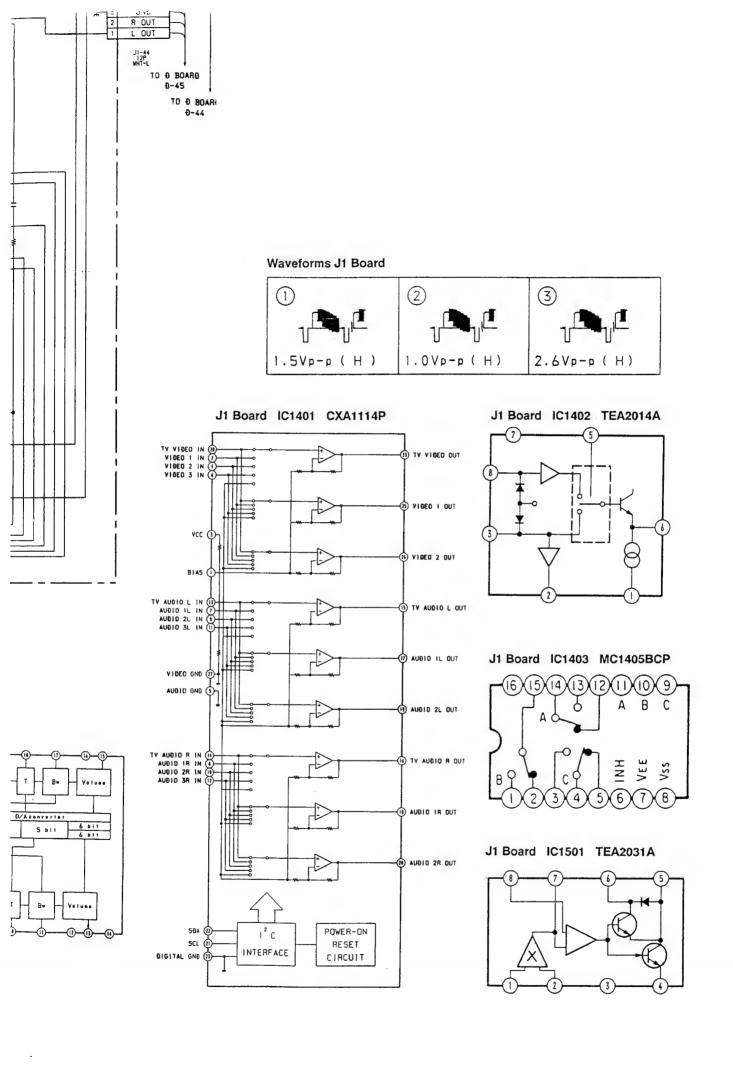


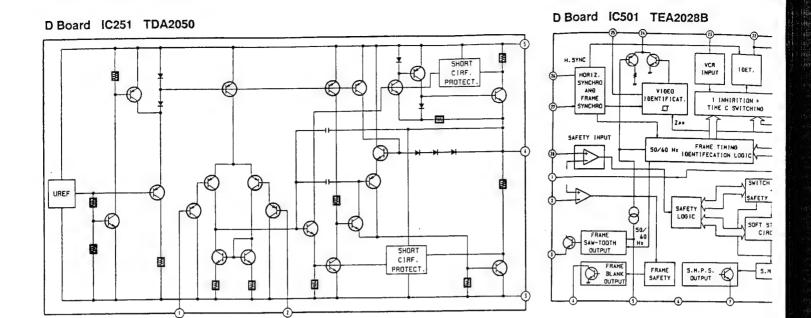


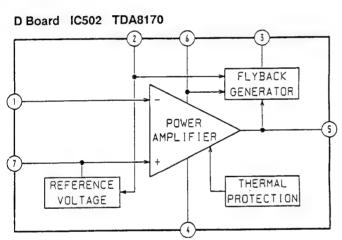
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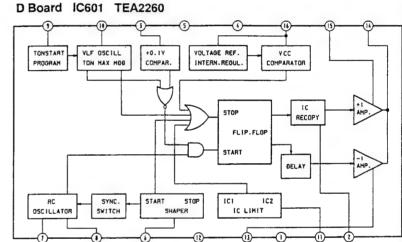


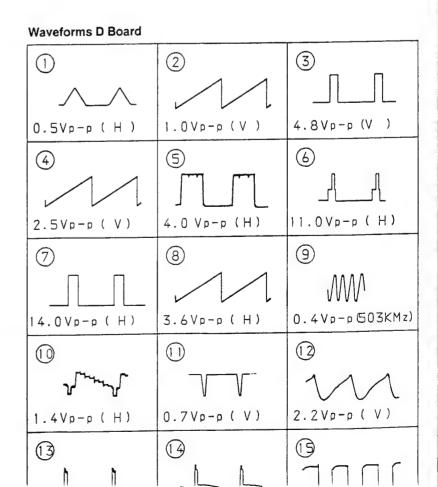


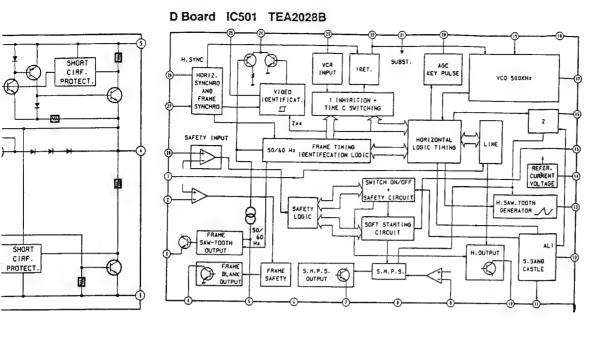


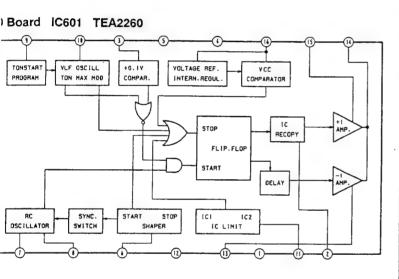












2 3 1) .5Vp-p (H) 1.0Vp-p(V) 4.8Vp-p(V)(5) 6 4.0 Vp-p (H).5Vp-p (V) 11.0 Vp-p (H) 8 9 0.4Vp-p (503KMz) .OVp-p (H) 3.6Vp-p(H)1 12 .4Vp-p (H) 0.7Vp-p(V)2.2Vp-p(V)

13

14

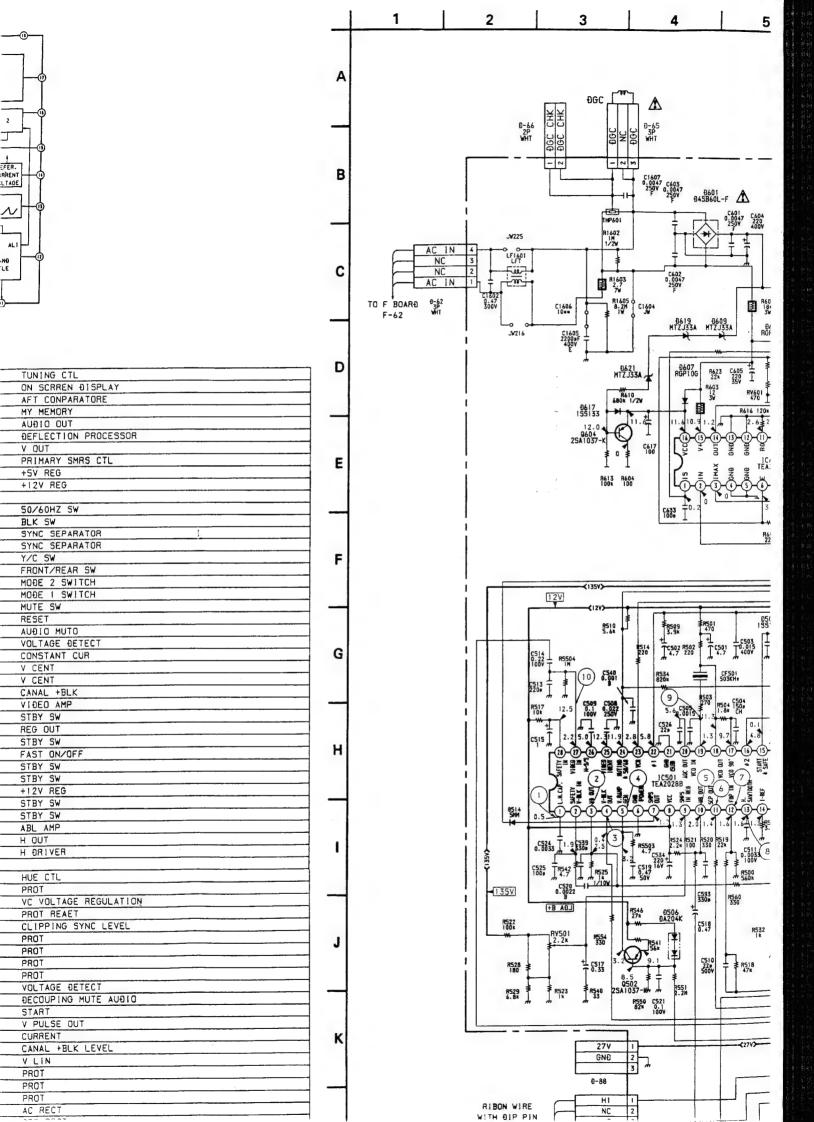
aveforms D Board

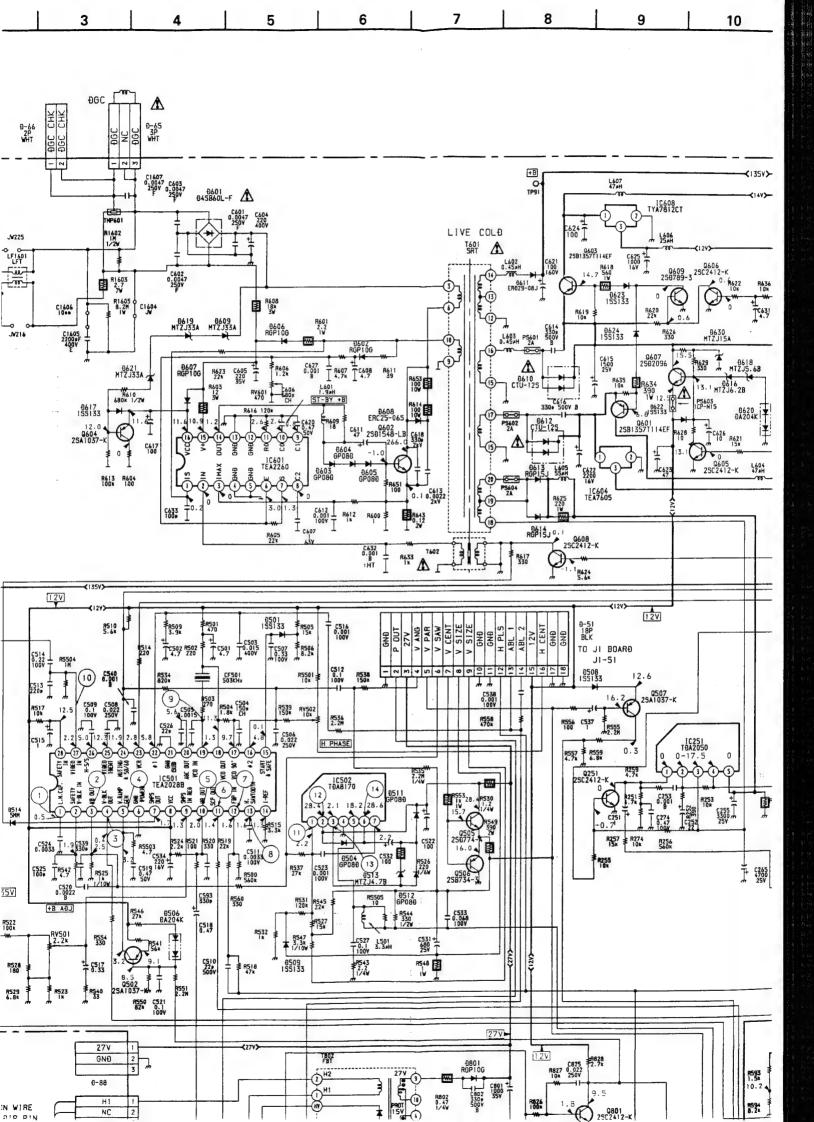
D Board

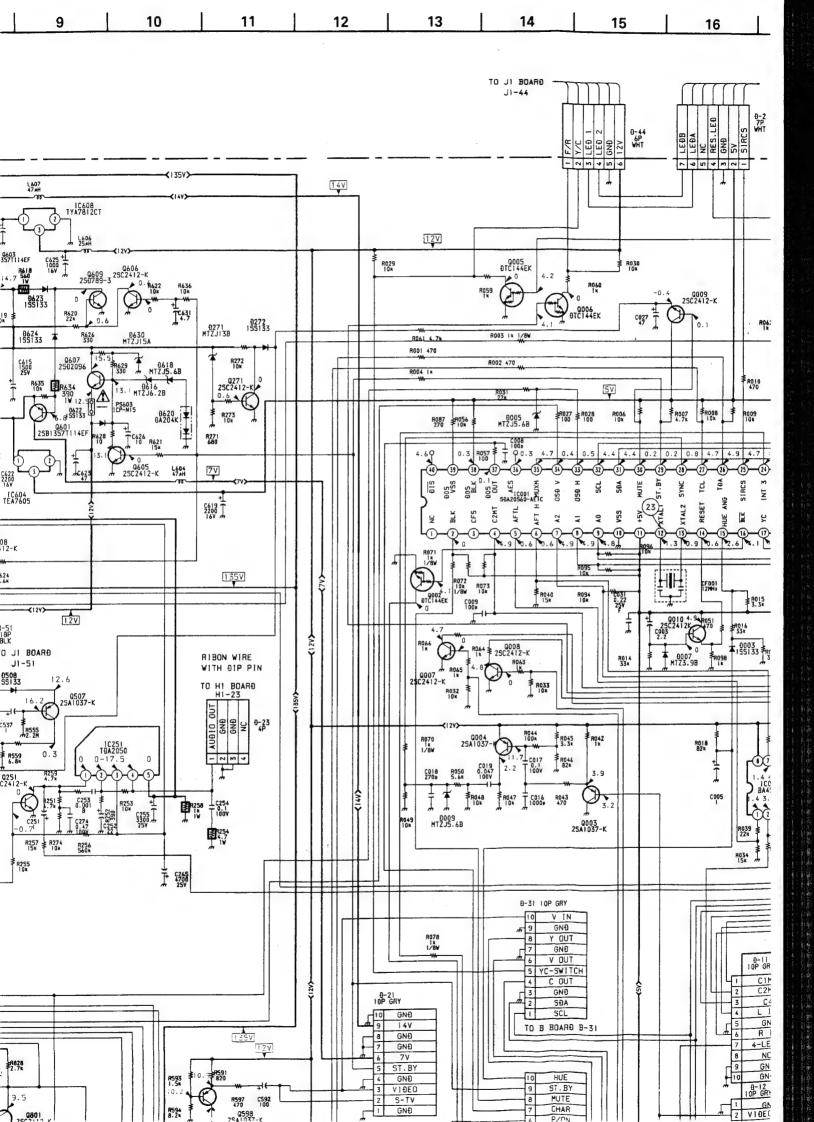
IC001 SDA20560-AE10

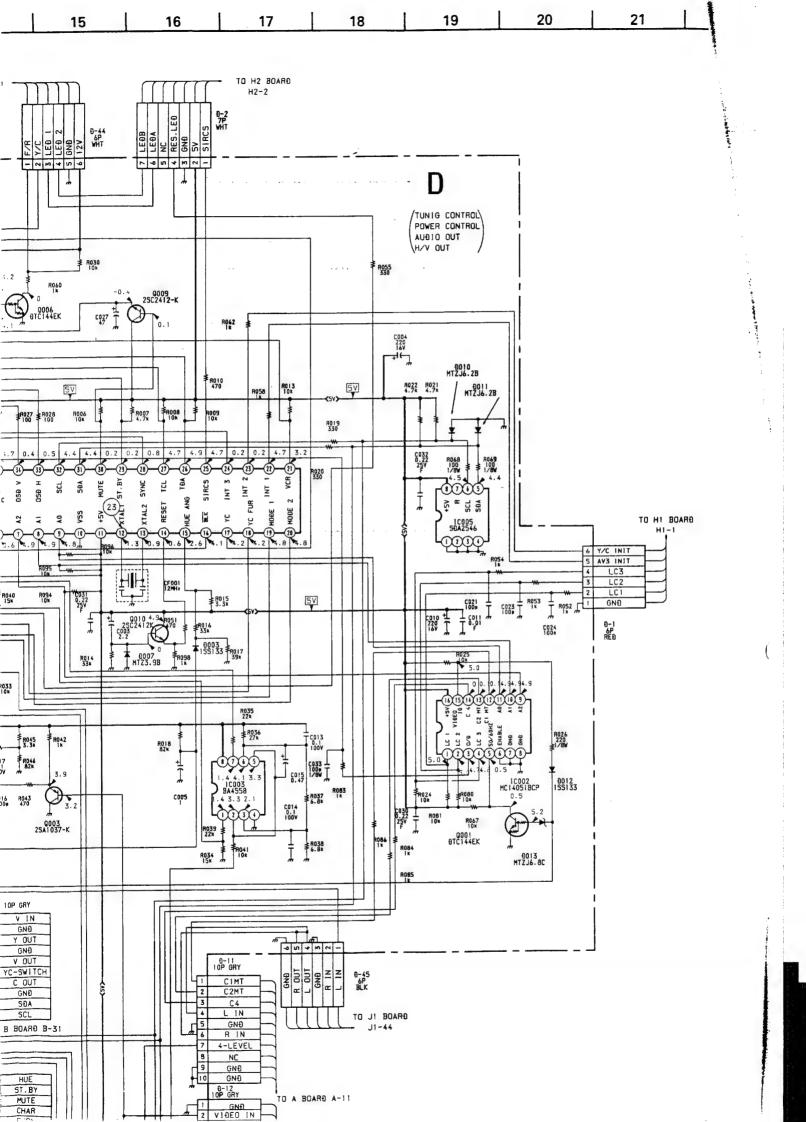
10002	MC1/05/BCD	ON SCRREN DISPLAY
10003	BA4558	AFT CONPARATORE
10005	50A2546	MY MEMORY
IC251	T0A2050	TUO OIGUA
IC501	TEA2028B	DEFLECTION PROCESSOR
10502	T-0A8170	V OUT
10601	TEA2260	PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
10608	TYA7812CT	+12V REG
Q001	OTC144EK	50/60HZ SW
9002	ĐTA144EK	BLK SW
Q003	25A1037-K	SYNC SEPARATOR
Q004	2SA1037-K	SYNC SEPARATOR
0005	DTC144EK	Y/C SW
0006	DTC144EK	FRONT/REAR SW
Q007	2SC2412-K	MOĐE 2 SWITCH
8000	2SC2412-K	
0009	2SC2412-K	MUTE SW
Q010	25C2412-K	RESET
0251	25C2412-K	OTUM DIGUA
Q271	2SC2412-K	VOLTAGE DETECT
Q502	2SA1037-K	CONSTANT CUR
Q505	2SD774-4	V CENT
Q506	2SB734-3	V CENT
Q507	25A1037-K	CANAL +BLK
0598	25A1037-K	VIĐEO AMP
Q601	2SB1357T114EF	STBY SW
9602	2SD1548-LF	REG OUT
Q603	2SB1357T114EF	STBY SW
9604	2SA1037-K	FAST ON/OFF
Q605	25C2412-K	STBY SW
0606	2SC2412-K	STBY SW
		+12V REG
Q607	2S02096	
0608	2SC2412-K	STBY SW
0609	250789-3	STBY SW
Q801	25C2412-K	ABL AMP
Q804	2SD1941-06	H OUT
Q805	2SC2688-L	H DRIVER
Đ003	155133	HUE CTL
Đ005	MTZJ5.6B	PROT
9006	MTZJ33A	VC VOLTAGE REGULATION
Đ007	MTZ3.9B	PROT REAET
Đ009	MTZJ5.6B	CLIPPING SYNC LEVEL
Đ010	MTZJ6.2B	PROT
0011	MTZJ6.2B	PROT
9012	155133	PROT
9012	MTZJ6.8C	PROT
	MTZJ13B	VOLTAGE DETECT
Đ271		DECOUPING MUTE AUDIO
Đ272	155133	START
Ð501	155133	V PULSE OUT
Ð504	GP08Đ	
£506	ĐA204K	CURRENT
Ð508	155133	CANAL +BLK LEVEL
Ð509	155133	V LIN
Ð511	GP08Đ	PROT
Đ512	GP08Đ	PROT
Đ513	MTZJ4.7B	PROT
Đ601	045B60L-F	AC RECT
	232.73	are again

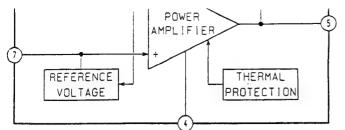
TUNING CTL

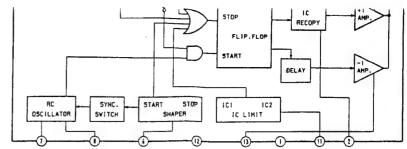




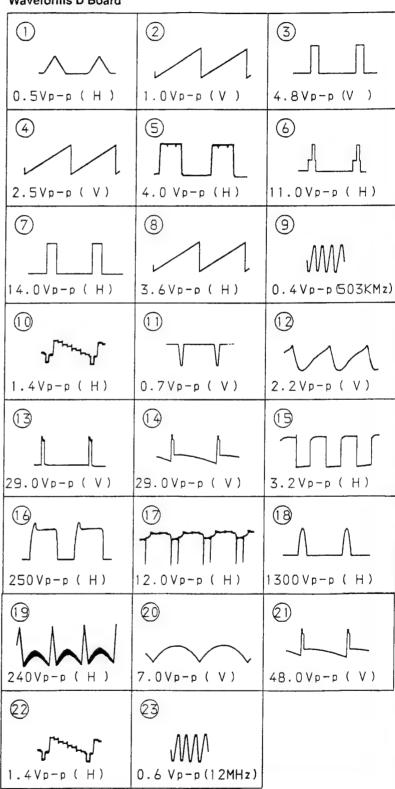


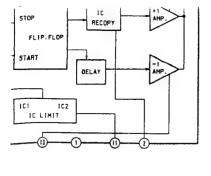






Waveforms D Board





	3 4.8Vp-p (V)
(H)	(6) 11.0Vp-p (H)
H)	9 MM 0.4Vp-p 503KMz)
V.	(2) 2.2Vp-p (V)
(v)	(5) 3.2Vp-p (H)
(H)	1300Vp-p (H)
V)	(1) 48.0 Vp-p (V)

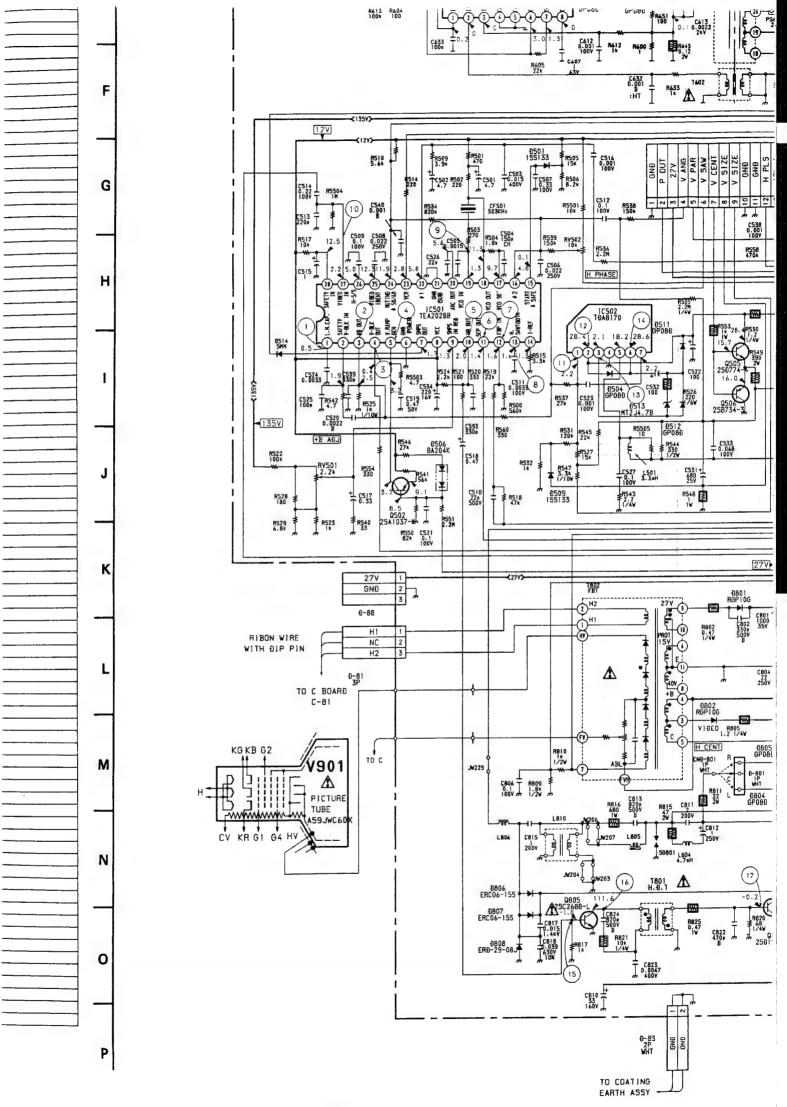
12MHz)

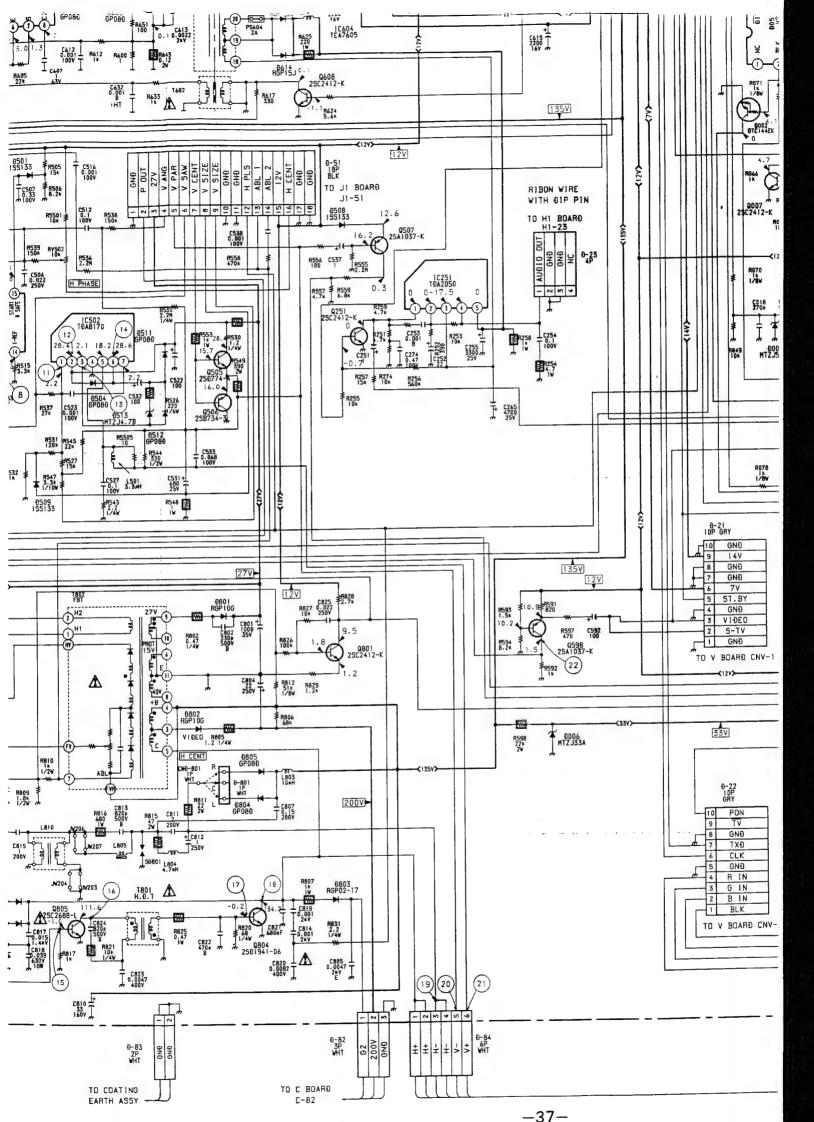
10608	TYA7812CT	+12V REG
Q001	ĐTC144EK	50/60HZ SW
9002	DTA144EK	BLK SW
0003	25A1037-K	SYNC SEPARATOR
Q004	25A1037-K	SYNC SEPARATOR
0005	DTC144EK	Y/C SW
0006	ĐTC144EK	FRONT/REAR SW
Q007	25C2412-K	MODE 2 SWITCH
0008	25C2412-K	MODE I SWITCH
0009	25C2412-K	MUTE SW
Q010	2SC2412-K	RESET AUBIO MUTO
0251	25C2412-K	VOLTAGE DETECT
Q271 Q502	25C2412-K 25A1037-K	CONSTANT CUR
Q505	2SD774-4	V CENT
Q506	2SB734-3	V CENT
Q507	25A1037-K	CANAL +BLK
0598	25A1037-K	VIĐEO AMP
Q601	25B1357T114EF	STBY SW
0602	2SD1548-LP	REG OUT
0603	2SB1357T114EF	STBY SW
0604	25A1037-K	FAST ON/OFF
0605	2SC2412-K	STBY SW
Q606	25C2412-K	STBY SW
0607	2SÐ2096	+12V REG
0608	25C2412-K	STBY SW
0609 0801	2SB789-3 2SC2412-K	STBY SW ABL AMP
-	2SD1941-06	H OUT
Q804 Q805	2SC2688-L	H DRIVER
6003	2502000-1	31111511
Đ003	155133	HUE CTL
Đ005	MTZJ5.6B	PROT
900g	MTZJ33A	VC VOLTAGE REGULATION
Đ007	MTZ3.9B	PROT REAET
Đ009	MTZJ5.6B	CLIPPING SYNC LEVEL
Đ010	MTZJ6.2B	PROT
Đ011	MTZJ6.2B	PROT
Đ012	155133	PROT
Đ013	MTZJ6.8C	PROT
Đ271	MTZJ13B	VOLTAGE DETECT
Đ272	155133	DECOUPING MUTE AUDIO
Ð501	155133	START V PULSE OUT
Ð504	GP08Ð ĐA204K	CURRENT
0506 0508	155133	CANAL +BLK LEVEL
Đ509	155133	V LIN
Đ511	GP08Đ	PROT
Đ512	GP08Đ	PROT
Đ513	MTZJ4.7B	PROT
£109£	Đ4SB60L-F	AC RECT
Đ602	RGP10G	REF RECT
Đ603	GP08Đ	SMPS DRIVE 1
Ð604	GP08Đ	SMPS DRIVE 2
Đ605	GP08Đ	SMPS DRIVE 3 +12V RECT
9606	RGP10G	REF RECT
£607	RGP 1 0G ERC 25-065	PLUSE CLIPPER
£08	MTZJ33A	FAST DN/OFF
Đ610	CTU-125	+14V RECT
9611	ERÐ29-08J	+135V RECT
Đ612	CTU-125	+7V RECT
Đ613	RGP15J	AF V RECT-1
Ð614	RGP15J	AF V RECT-2
Ð616	MTZJ6.2B	+12V REG
Ð617	155133	PROT
Ð618	MTZJ5.6B	+12V REF
Đ619 D420	MTZJ33A	FAST ON/OFF-2
Ð620	ĐA204K	+12V REF FAST ON/OFF-3
Đ621 Đ622	MTZJ33A 155133	PROT
Đ623	155133	DECOUPING STBY
0623	155133	ĐECQUPING STBY
9630	MTZJ15A	+12V REF
Đ801	RGP 1 DG	+27 REF
Đ802	RGP 1 0G	+200 REF
9803	RGP02-17	G2 REF
	GP08Đ	H CENTER-1
1 9804		W SEUTED 2
£804	GP08Đ	H CENTER-2
		H DAMPER-1
Đ805	GP080 ERC06-15S ERC06-15S	H ĐAMPER-1 H ĐAMPER-2
£805 £806	GP080 ERC06-15S	H DAMPER-1

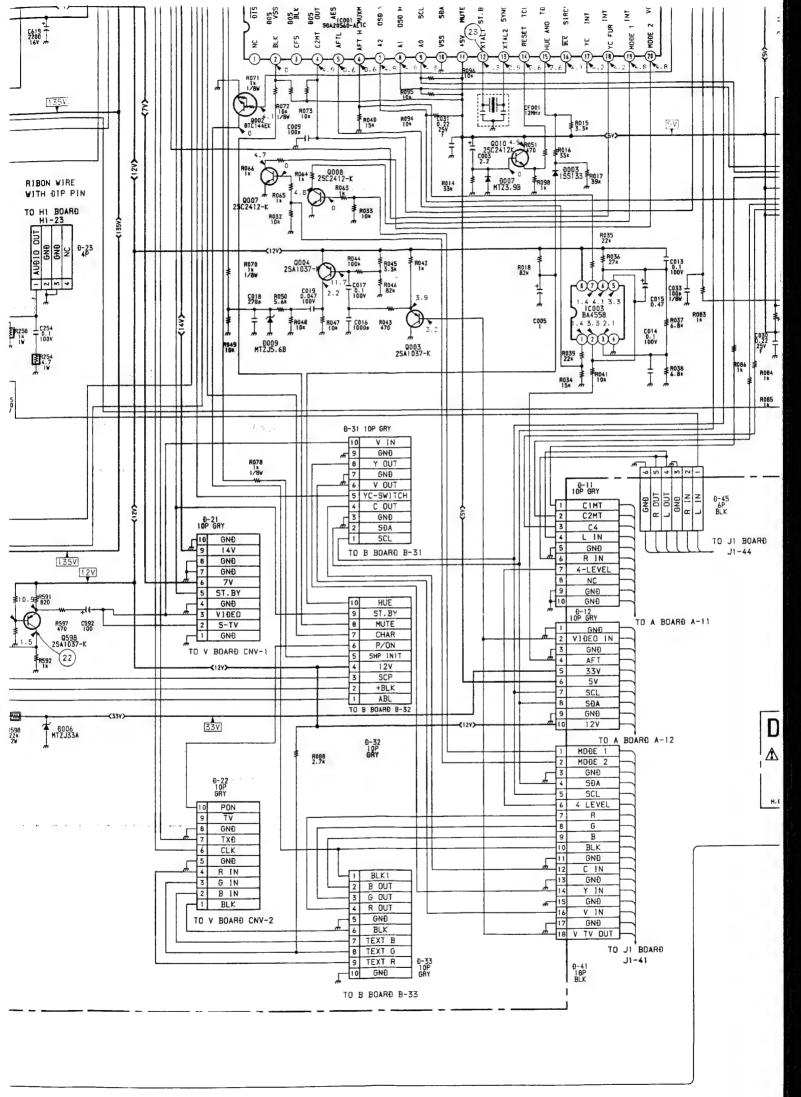
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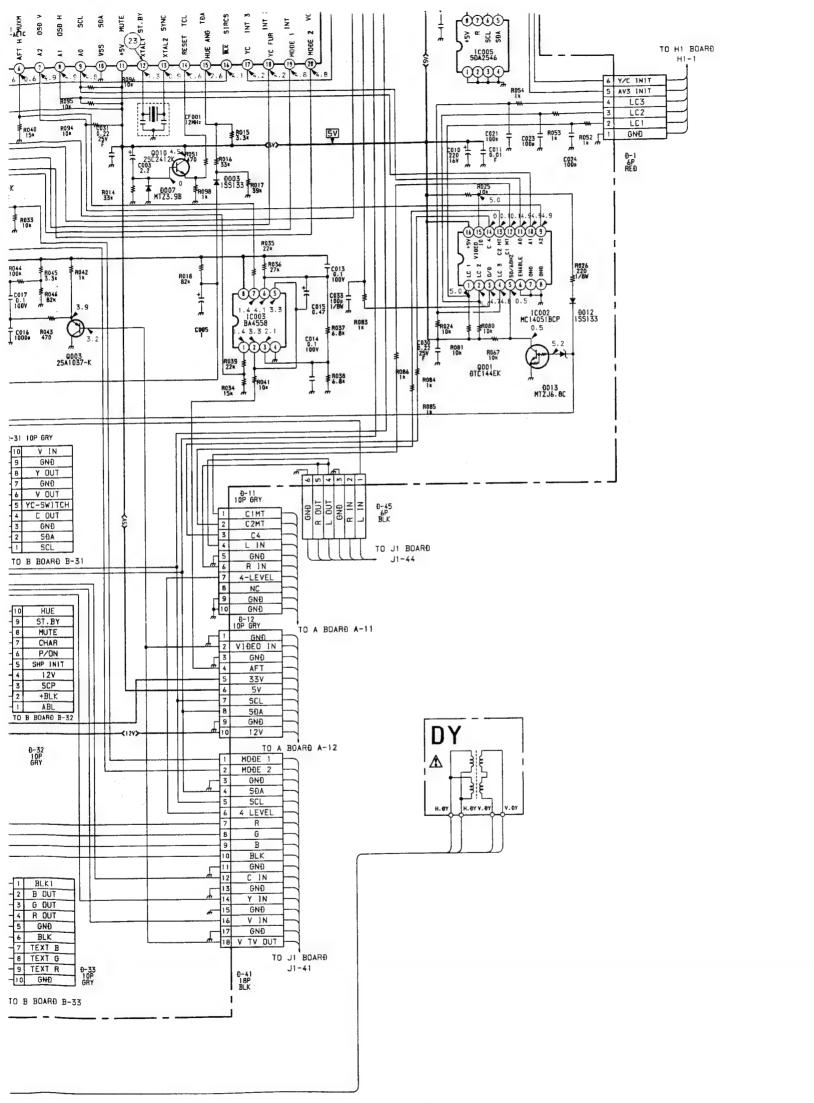
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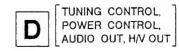
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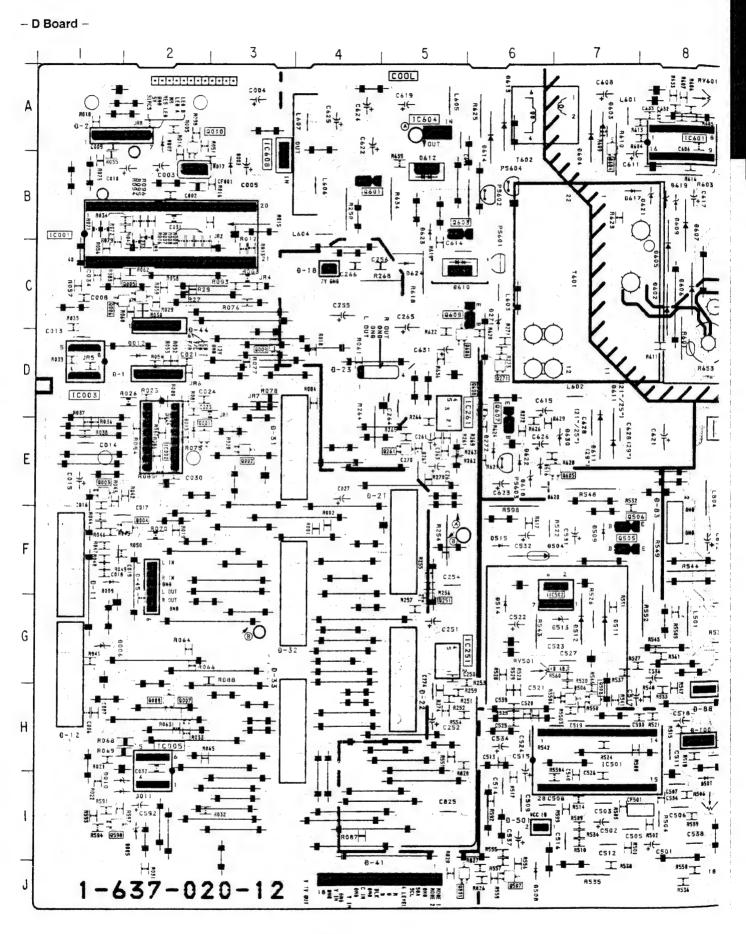




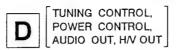




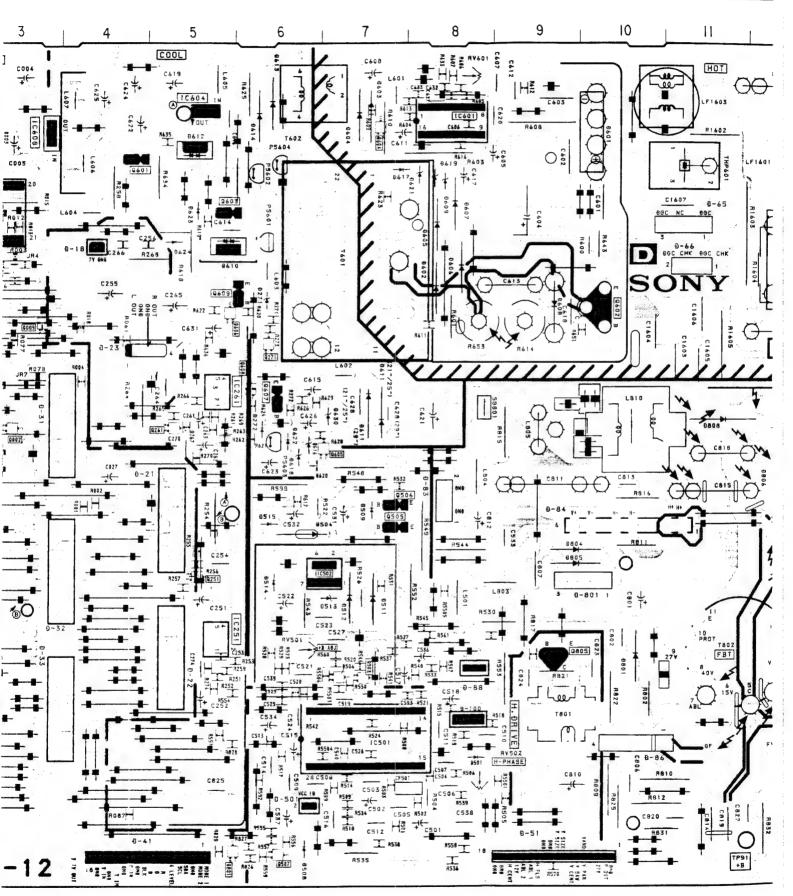




KV-M2521U RM-816 KV-M2521U RM-816





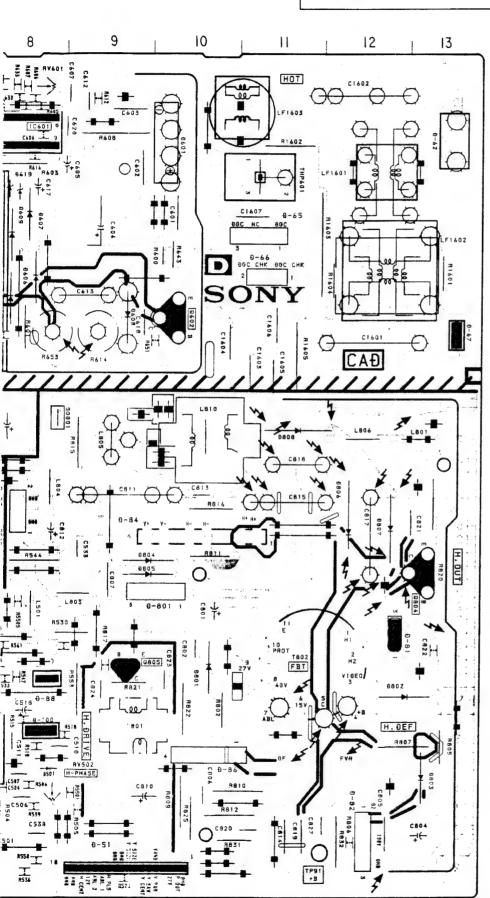


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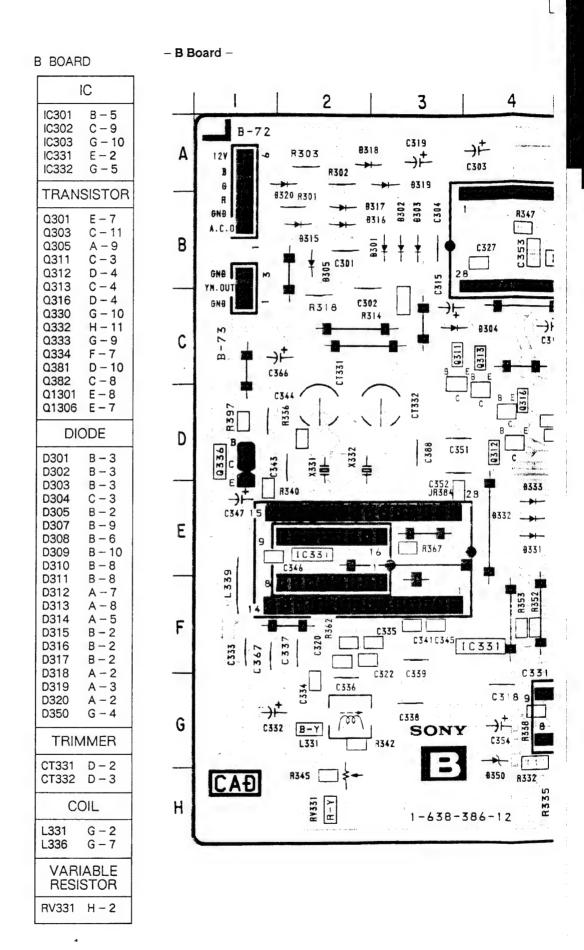


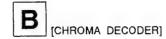
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



	10	Tp045	
IC001 IC002 IC003 IC005 IC251 IC261 IC501 IC502 IC601 IC604 IC608	B-2 E-2 D-1 H-2 G-5 D-5 H-7 G-7 A-8 A-5 B-3	D013 D271 D272 D501 D504 D506 D508 D509 D511 D512 D513 D601 D602	E-2 C-6 E-6 I-8 F-6 H-7 J-6 F-7 G-7 G-7 G-7 B-10 C-8 A-7
TRAN	SISTOR	D604 D605	A - 7 C - 8
Q001 Q002 Q003 Q004 Q005 Q006 Q007 Q008 Q009 Q010 Q251 Q261 Q505 Q505 Q505 Q505 Q506 Q507 Q598 Q601 Q603 Q604 Q605 Q606 Q607 Q608 Q609 Q801 Q804	E E E F C C H H D A G E D H F F J I B C B A E D D D C J G I S	D606 D607 D608 D609 D610 D611 D612 D613 D614 D616 D617 D618 D619 D620 D621 D622 D623 D624 D630 D801 D802 D803 D804 D805 D806 D807 D808	CBCBCEBAAEBEBEBCEGH-13 FF-11 FF-11
Q805 G-9		TP	
DIODE		TP91 (+B)	J – 11
D003 D005 D006	B - 3 I - 2 G - 1		_
D007 D009	A - 2 F - 1		STOR
D010 D011 D012	I – 2 I – 2 D – 2	RV501 RV502 RV601	1-8





BOARD - B Board -

IC

B-5 C-9

G - 10

E-2

G-5

E-7C-11

A - 9

C - 3

D-4

C - 4

D-4

G - 10

H - 11

G - 9

F-7

C - 8

E-8

E-7

B - 3

B - 3

B - 3

C-3

B-2

B - 9

B - 6

8 - 8

8 - 8

A - 7

A - 8

A - 5

B-2

B-2

B-2

A - 2

A - 3

A - 2

G - 4

D-2

G-2

G-7

TRIMMER

CT332 D-3

COIL

VARIABLE RESISTOR

B - 10

DIODE

D - 10

TRANSISTOR

IC301

IC302

IC303

IC331

IC332

Q301

Q303

Q305

Q311

Q312

Q313

Q316

Q330

Q332

Q333

Q334

Q381

Q382

Q1301

Q1306

D301

D302

D303

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D305

D307

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D310

D311

D312 D313

D314

D315

D316

D317

D318

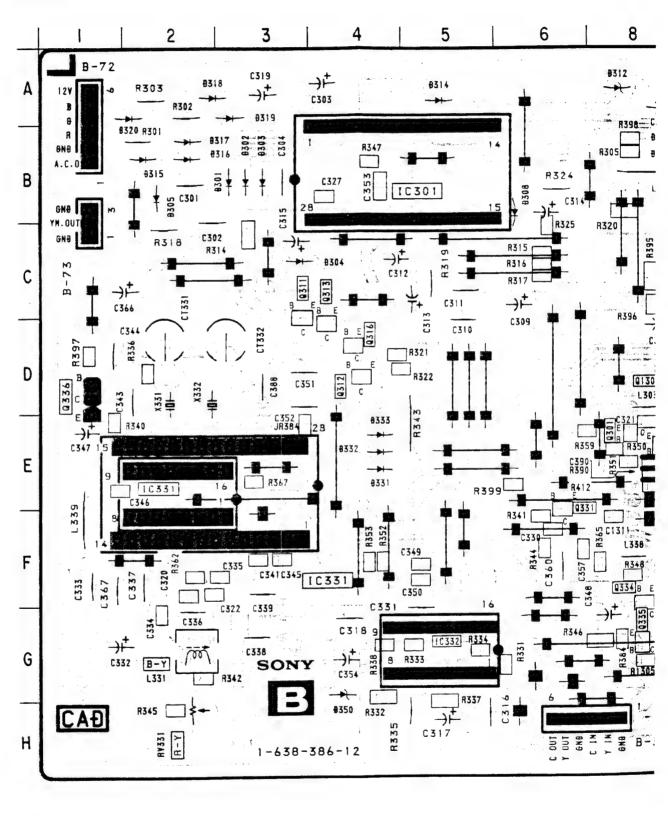
D319

D320

D350

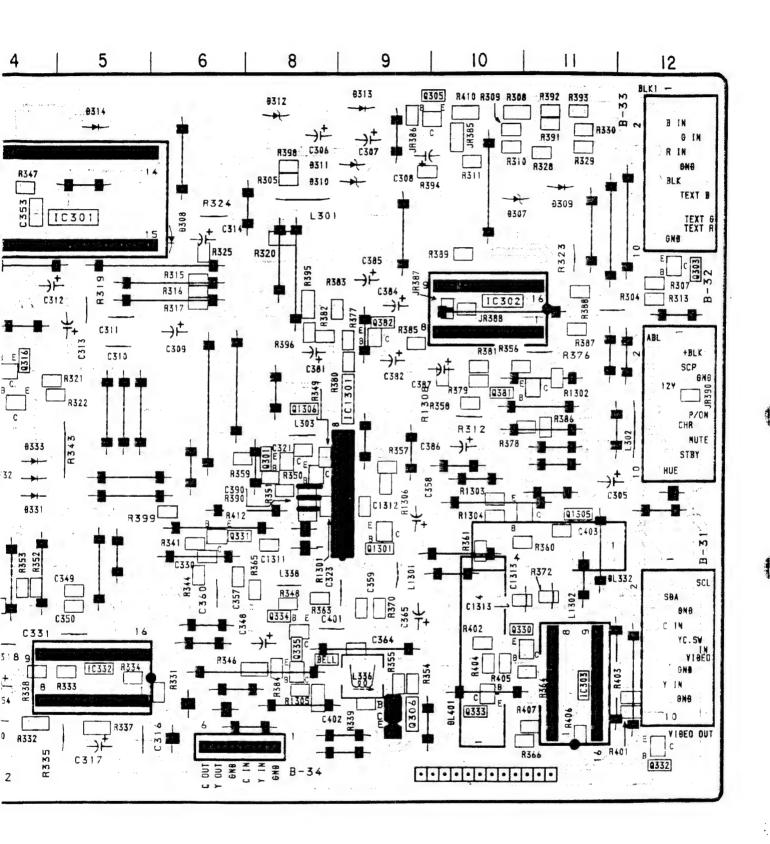
CT331

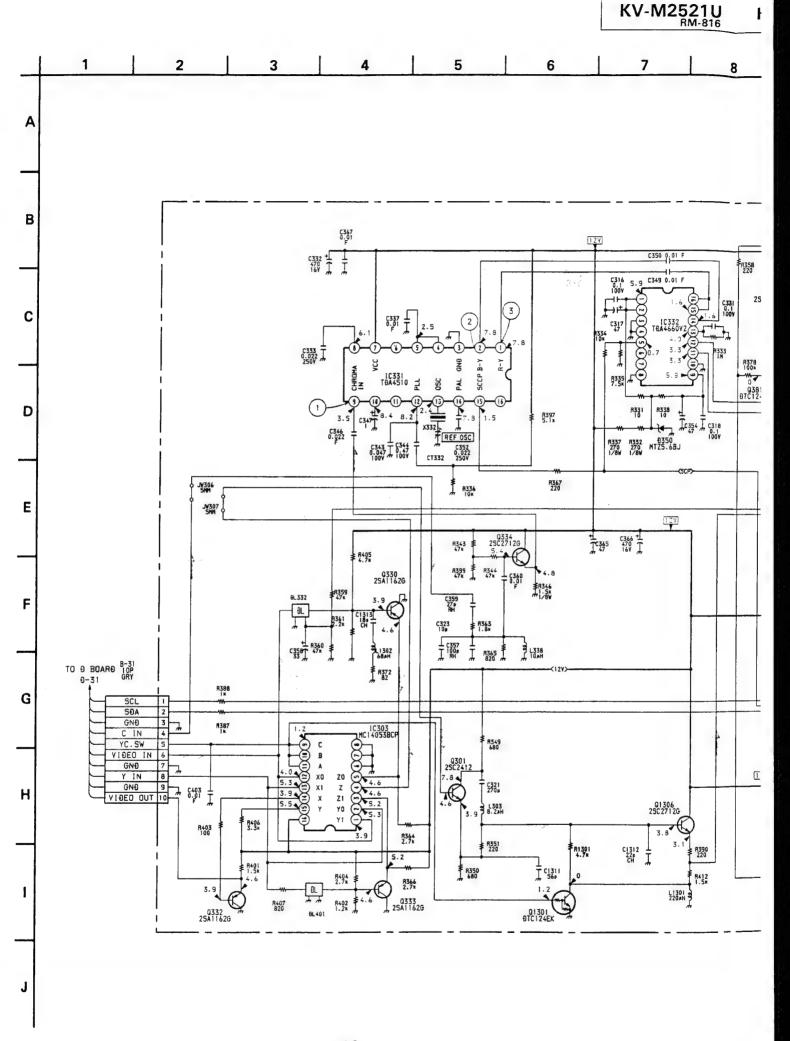
L331 L336



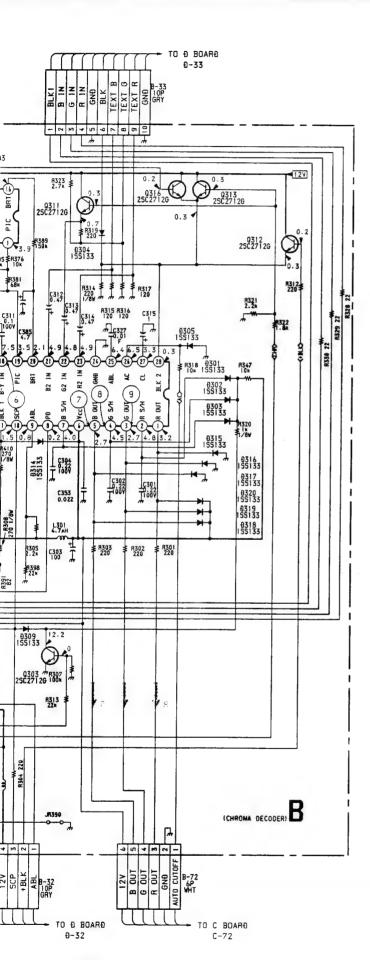
RV331 H - 2

B [CHROMA DECODER]





TO & BOARĐ

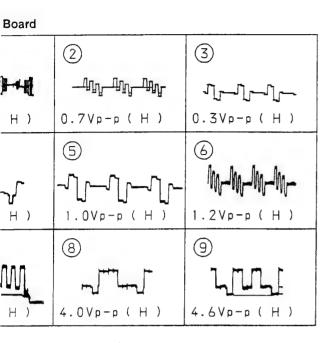


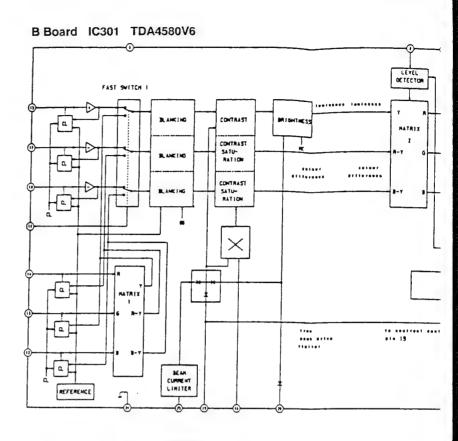
Waveforms B Board

1	2	(3
	<u> </u>	
0.4Vp-p (H)	0.7Vp-p (H)	0.
4	(5)	E
у том туб 0.4Vp-p (Н)	1.0Vp-p (H)	1.
7	8	િ
rim rim		
4.5Vp-p (H)	4.0Vp-p (H)	4.

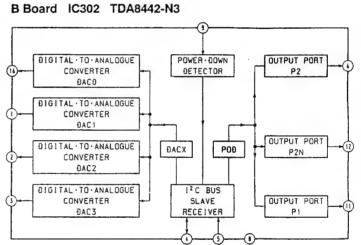
B Board

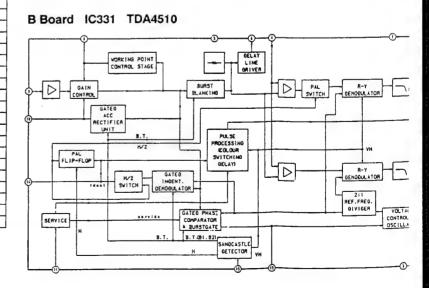
	_	
IC301	TDA4580-V6	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTER IC BUS
IC303	MC14053BCP	Y/C COMP SW
IC331	TDA4510	COLOR PROCESSOR
IC332	TDA4660V2	1H-DELAY
Q301	2SC2412	Y BUFFER
Q303	2SC2712G	STBY SW
Q305	DTC114EK	ANTI PRIORITY SCART
Q311	2SC2712G	ON SCREEN DISPLAY SW
Q312	2SC2712G	CANRL +BLK
Q313	2SC2712G	ON SCREEN DISPLAY
Q316	2SC2712G	FAS PICTURE MUTE SW
Q330	2SA1162G	VIDEO AMP
Q332	2SA1162G	VIDEO BUFF
Q333	2SA1162G	Y AMP
Q334	2SC2712G	PAL/NTSC SW
Q381	DTC124EK	MUTE
Q382	2SC2712G	ABL
Q1301	DTC124EK	Y BUFF
Q1306	2SC2712G	Y OUT
D301	1SS133	ACO AT STBY
D302	1SS133	ACO AT STBY
D303	1SS133	ACO AT STBY
D304	1SS133	DECOUPLING BLK
D305	1SS133	PROT
D307	MTZ11CJ	PROT
D308	1SS133	PROT
D309	1SS133	PROT
D310	MTZ11CJ	PROT
D311	MTZ11CJ	PROT
D312	MTZ11CJ	PROT
D313	1SS133	PROT
D314	1SS133	PROT
D315	1SS133	PROT
D316	1SS133	PROT
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D319	1SS133	PROT
D320	1SS133	PROT
D350	MTZ5.6BJ	PROT



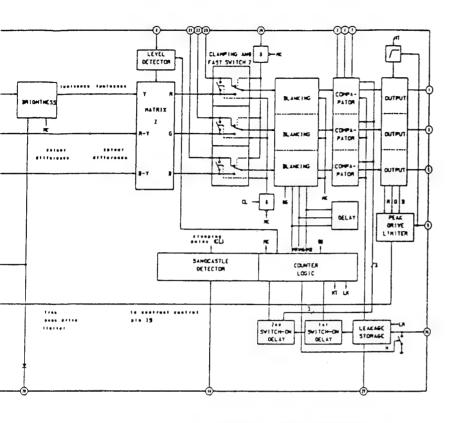


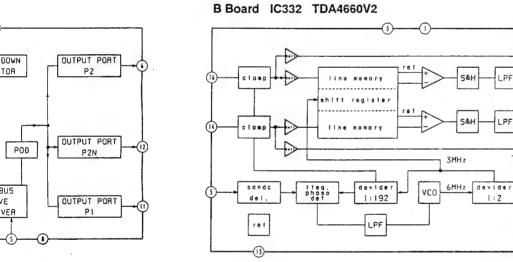
580-V6 VIDEO PROCESSOR D/A CONVERTER IC BUS 442-N3 053BCP 510 Y/C COMP SW COLOR PROCESSOR 660V2 1H-DELAY 412 712G 14EK Y BUFFER STBY SW ANTI PRIORITY SCART 712G ON SCREEN DISPLAY SW 712G 712G 712G 712G 162G CANRL +BLK ON SCREEN DISPLAY FAS PICTURE MUTE SW VIDEO AMP VIDEO BUFF 162G 162G 712G Y AMP PAL/NTSC SW 24EK 712G 24EK 712G MUTE ABL Y BUFF Y OUT 33 33 33 ACO AT STBY ACO AT STBY ACO AT STBY 33 33 1CJ 33 1CJ 1CJ 1CJ DECOUPLING BLK PROT PROT PROT PROT PROT PROT PROT 33 PROT 33 PROT 33 33 PROT PROT 33 PROT 33 PROT 33 PROT 33 PROT .6BJ PROT

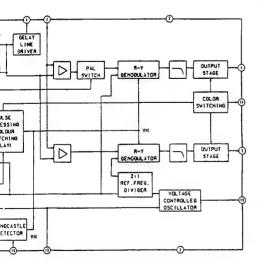




21U M-816





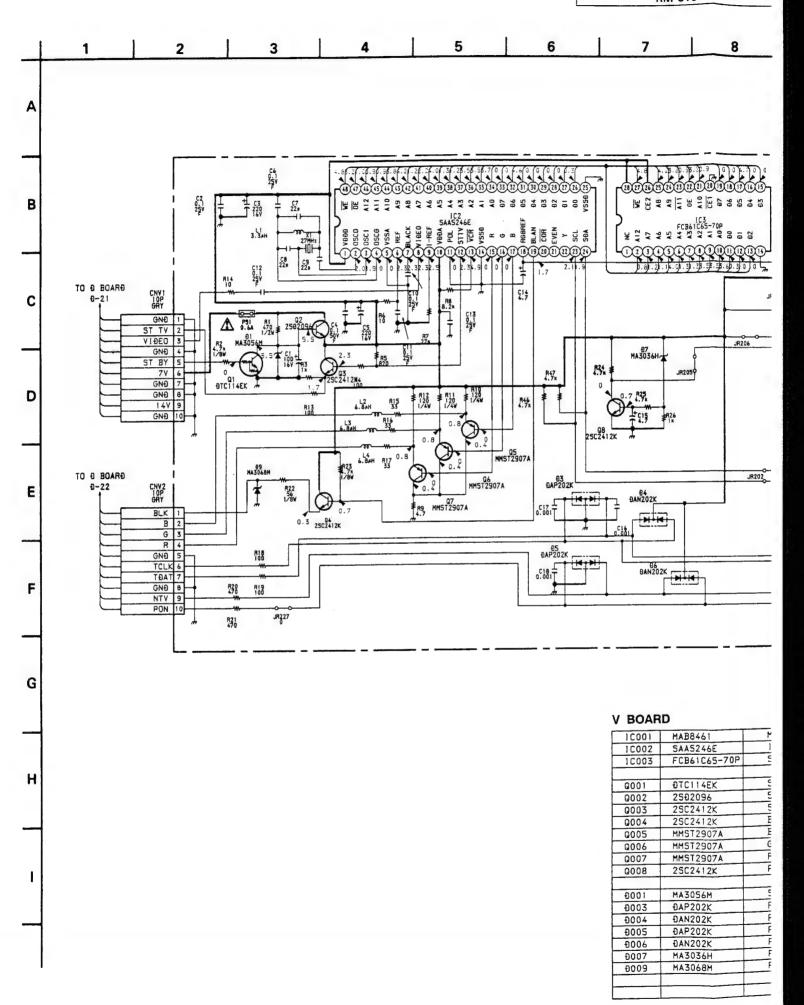


LPF

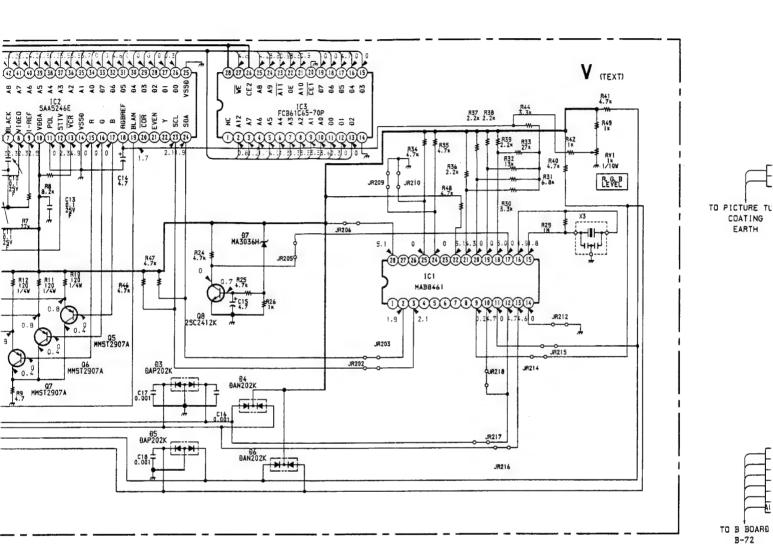
LPF

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5 6 9 10 11 12 8

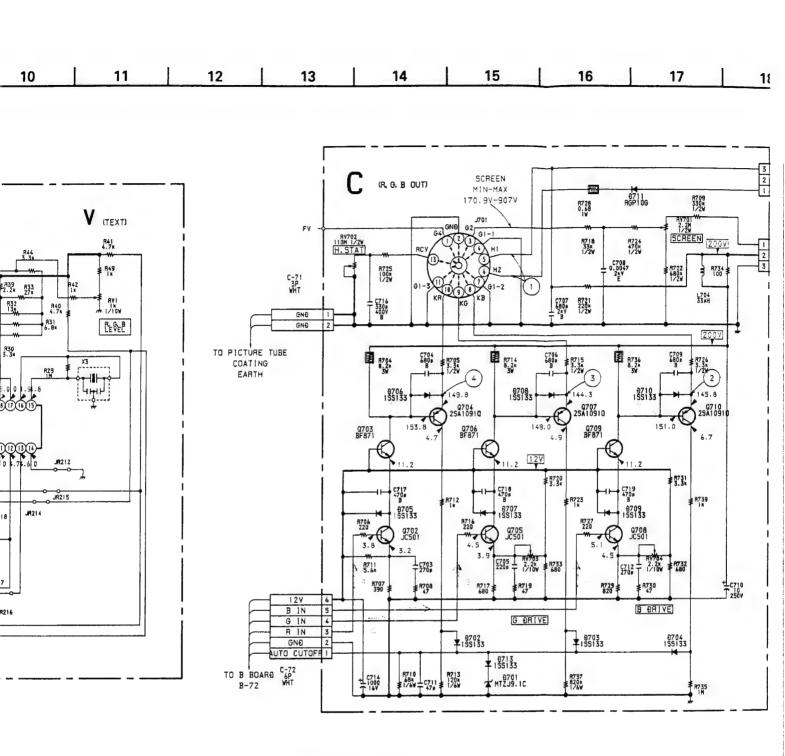


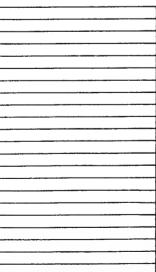
TO B BOARD B-72

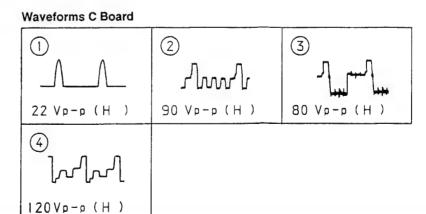
COATING

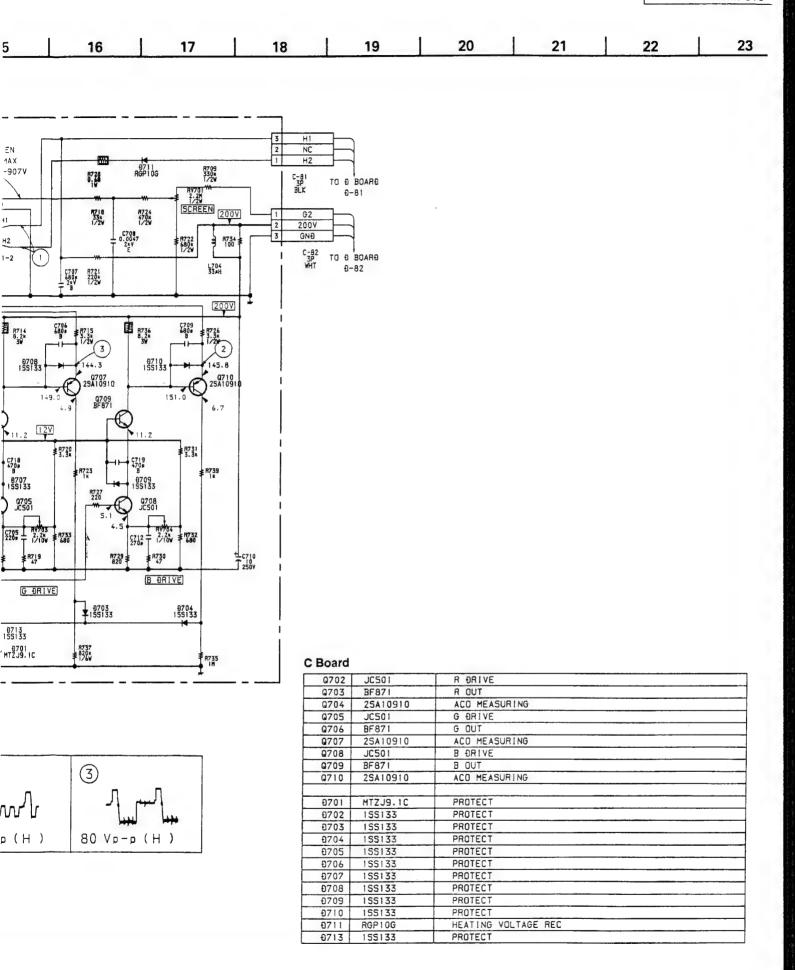
V BOARD

10001	MAB8461	M1CRO-CONT
JC002	SAA5246E	INT
10003	FCB61C65-70P	STATIC-RAM
Q001	DTC114EK	STAND BY
0002	2S02096	5V REG
0003	2SC2412K	SYNC BUFFER
0004	2SC2412K	BLK OUT
0005	MMST2907A	B OUT
0006	MMST2907A	G DUT
Q007	MMST2907A	R DUT
8000	25C2412K	PON SW
Đ001	MA3056M	SV REG
£003	ĐAP202K	PROTECT
Đ004	ĐAN202K	PROTECT
Đ005	ĐAP202K	PROTECT
9006	ĐAN202K	PROTECT
Đ007	MA3036H	PROTECT
Đ009	MA3068M	PROTECT



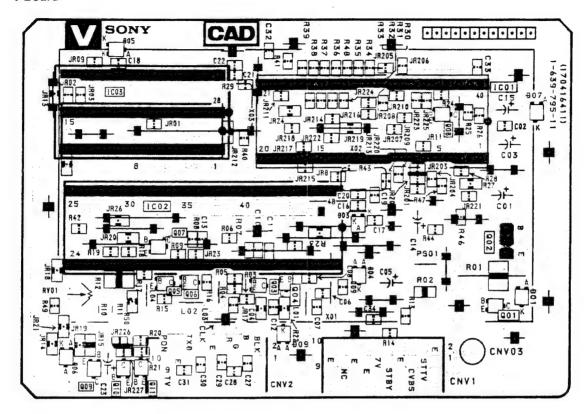




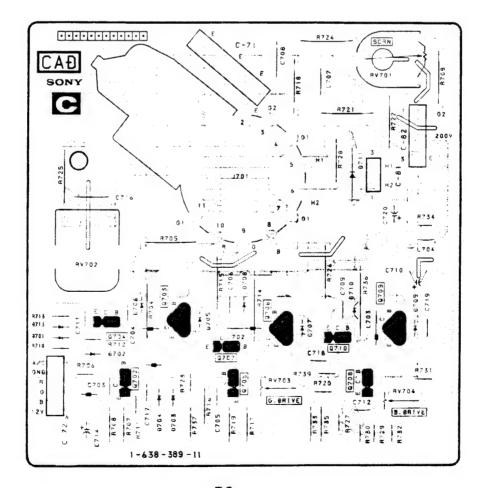




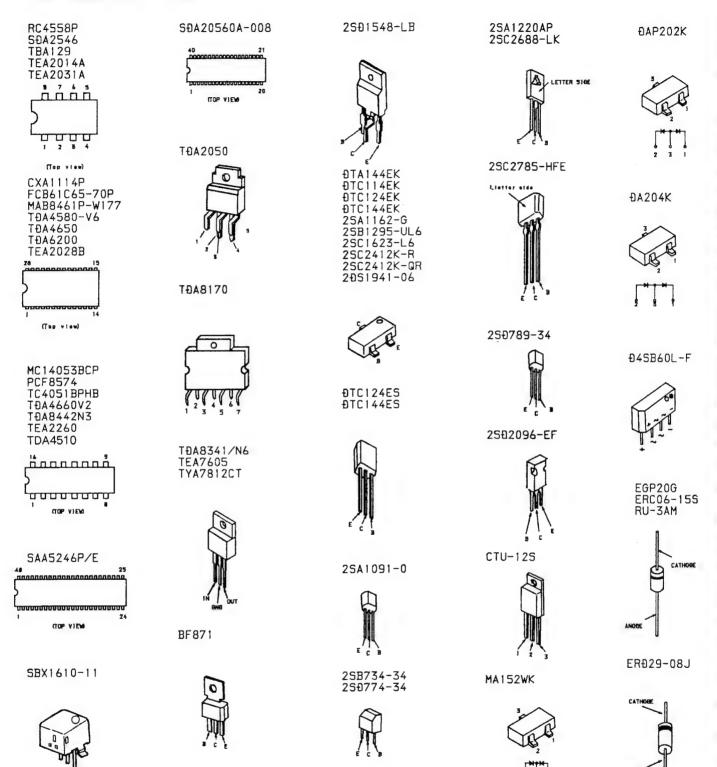
- V Board -



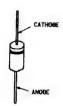
- C Board -



5-4. SEMICONDUCTORS



RGP02-17



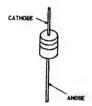
U05G



L0-201VR







RĐ3.6M-B2 RĐ5.6M-B2 RĐ6.8M-B2



SECTION 6 **EXPLODED VIEWS**

NOTE:

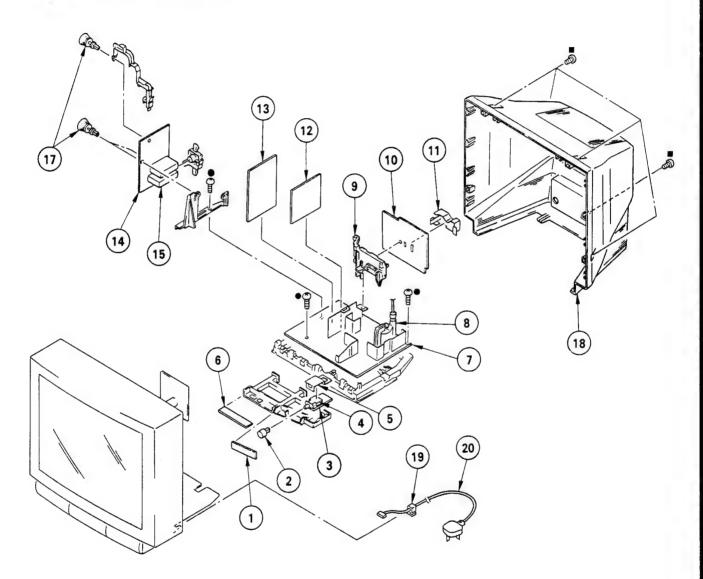
- · Items with no part number and no des-
- cription are not stocked because they are seldom required for routine service.

 The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

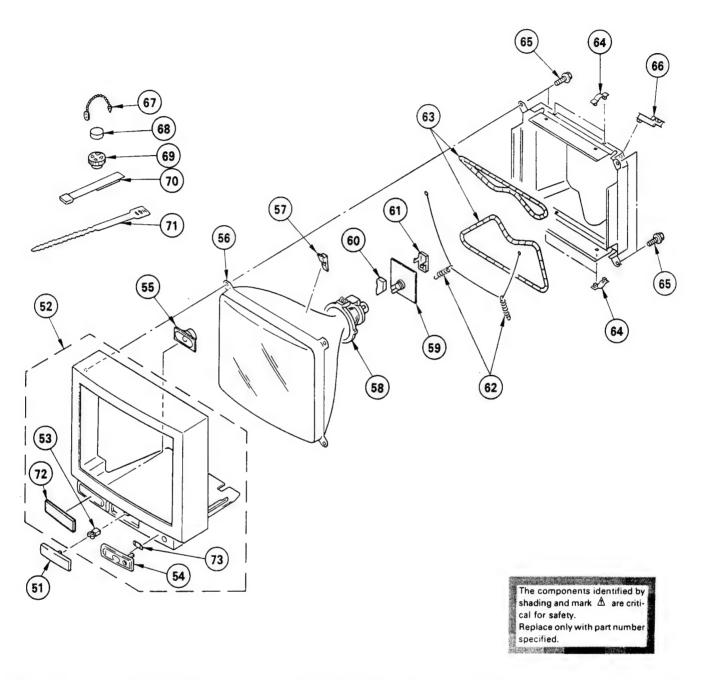
6-1. CHASSIS

●: BVTP3 × 12 7-685-648-79 ■: BVTP4 × 16 7-685-663-79



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1 *1-638-392-11 2 4-200-639-01 3 *1-638-390-11 4 \(\Delta \) .1-571-433-12 4-200-757-01 6 *1-638-391-11 7 \(\Delta \) .1642-040-A 8 \(\Delta \) .1-439-416-51 9 *4-386-624-11 10 \(\Delta \) .1651-021-A	II2 BOARD BUTTON, POWER F BOARD SWITCH, PUSH (AC POWER) COVER, POWER SWITCH H1 BOARD D BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK BRACKET, J J1 BOARD, COMPLETE	(UX-1650)	17 18 19 Δ	4-200-014-01 A-1645-015-A A-1621-016-A A-1632-037-A .1-465-515-11 4-386-618-01 4-200-645-01 .4-389-201-02 .1-590-762-11	B BOARD, COMPLETE A BOARD, COMPLETE TUNER (SUF944PLL) RIVET, T TYPE COVER, REAR HOLDER, AC CORD	

6-2. PICTURE TUBE



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
57 3-704-495-01	CABINET ASSY (WITH BEZEL A CATCHER, PUSH WINDOW, ORNAMENTAL SPEAKER PICTURE TUBE (A59JWC60X) SPACER, DY DEFLECTION YOKE (Y25FXA) C BOARD, COMPLETE COVER (MAIN), CV	SSY) 53, 54, 72, 73	64 *4-385-916-01 65 4-373-263-01 66 *4-387-216-01 67 4-308-870-00 68 1-452-032-00 69 1-452-094-00	COIL DEGAUSS HOLDER (D) SCREW (M), PT HOLDER, LEAD CLIP, LEAD WIRE MAGNET, DISK; 10MM Ø	

SECTION 7 **ELECTRICAL PARTS LIST**



NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

- · Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors . MF : μ F, PF : μ F have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

- MMH : mH, UH : μH

RESISTORS

- · All resistors are in ohms
- F : nonflammable

REF. NO	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	A-1621-016-A	B BOARD, COM	PLETE *****			C360 C365 C366	1-101-004-00 1-124-910-11 1-126-103-11	ELECT	0.01MF 47MF 470MF	20% 20%	50V 50V 16V
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td>C367</td><td>1-101-004-00</td><td>CERAMIC</td><td>0.01MF</td><td>20*</td><td>50¥</td></con<>	NECTOR>				C367	1-101-004-00	CERAMIC	0.01MF	20*	50¥
B31 B32 B33 B34	*1-565-393-11 *1-565-393-11 *1-565-393-11 *1-568-881-51	CONNECTOR, B CONNECTOR, B PIN, CONNECT	OARD TO BOAI OARD TO BOAI OR 6P	RD RD		C381 C382 C384 C385	1-124-902-00 1-124-927-11 1-124-910-11 1-124-927-11	ELECT ELECT ELECT	0.47MF 4.7MF 47MF 4.7MF	207 207 207 207	50V 50V 50V
B72 B73	*1-568-881-51 *1-568-878-51					C387 C403 C1311	1-137-027-11 1-164-232-11 1-163-111 - 00	CERAMIC CHIP	0.82MF 0.01MF	10%	63V 50V 50V
D13	*1-300-010-31	rin, conneci	UK JF			C1312	1-163-235-11 1-102-953-00	CERAMIC CHIP	22PF 18PF	5% 5% 5%	50V 50V
	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td><td>1 102 733 00</td><td>02</td><td>10</td><td></td><td></td></cap<>	ACITOR>					1 102 733 00	02	10		
C301 C302	1-137-031-11 1-137-031-11		0.22MF 0.22MF	10% 10%	100V 100V		<tri< td=""><td>MMER></td><td></td><td></td><td></td></tri<>	MMER>			
C303 C304	1-124-122-11 1-137-031-11	ELECT FILM	100MF 0.22MF	20% 10%	50V 100V	CT332	1-141-418-11	CAP, ADJ			
C305	1-124-119-00	ELECT	330MF	20%	167		<010	DE>			
C306 C307 C308 C309 C310	1-124-902-00 1-124-902-00 1-124-902-00 1-124-902-00 1-137-098-11	ELECT ELECT	O.47MF O.47MF O.47MF O.47MF O.1MF	20% 20% 20% 20% 10%	50V 50V 50V 50V 100V	D301 D302 D303 D304	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119			
C311 C312	1-137-098-11 1-124-902-00		0.1MF 0.47MF	10%	100V 50V	D305 D307	8-719-911-19 8-719-110-23	DIODE RD11ES	-03		
C313 C314 C315	1-124-902-00 1-124-902-00 1-124-903-11	ELECT ELECT ELECT	0.47MF 0.47MF 1MF	20% 20% 20% 20%	50V 50V 50V	D308 D309 D310 D311	8-719-110-23 8-719-987-06 8-719-911-19 8-719-110-23 8-719-110-23	DIODE WG713A DIODE 1SS119 DIODE RD11ES	-B3		
C316 C317 C318 C321 C323	1-137-098-11 1-124-910-11 1-137-098-11 1-163-117-00 1-102-947-00	ELECT	0.1MF 47MF 0.1MF 100PF 10PF	10% 20% 10% 5% 0.5PF	100V 50V 100V 50V 50V	D312 D313 D314 D315 D316	8-719-110-23 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD11ES DIODE 1SS119			
C327 C331 C332 C333 C337	1-164-232-11 1-137-098-11 1-126-103-11 1-137-102-11 1-101-004-00	FILM ELECT FILM	0.01MF 0.1MF 470MF 0.022MF 0.01MF	10% 20% 10%	50V 100V 16V 250V 50V	D317 D318 D319 D320	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-109-89	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	5-02		
C343 C344	1-137-094-11	FILM	0.047MF 0.47MF	10% 10%	100V 100V	D350	6-719-109-69	DIODE NOT. OE.	D-D2		
C346 C347	1-163-033-00 1-124-903-11	CERAMIC CHIP	0.022MF 1MF	20%	50V 50V			AY LINE>			
C349	1-164-232-11	CERAMIC CHIP	0.01MF		50 V	DL332 DL401	1-236-062-11 1-415-613-11	MODULE, Y DEL DELAY LINE,	LAY LINE Y		
C350 C352 C353 C354 C357	1-164-232-11 1-137-102-11 1-163-063-00 1-124-910-11 1-163-117-00		0.022MF 0.022MF 47MF	10% 10% 20% 5%	50V 250V 50V 50V 50V		<1C> 8-759-517-43		7		
C358 C359	1-124-917-11 1-163-103-00	ELECT CERAMIC CHIP	33MF 27PF	20% 5%	50V 50V	10302 10303 10331	8-759-980-60 8-759-040-53 8-759-513-46	IC MC14053BC	P 8		





REF.NO	. PART NO.	DESCRIPTION			R	REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
10332	8-759-505-39	IC TDA4660V2					R336 R337	1-216-073-00 1-216-184-00	METAL GLAZE METAL GLAZE	10K 270	5% 5%	1/10W 1/8W	
	<c01< td=""><td>L></td><td></td><td></td><td></td><td></td><td>R338</td><td>1-216-001-00</td><td>METAL GLAZE</td><td>10</td><td>5%</td><td>1/10W</td><td></td></c01<>	L>					R338	1-216-001-00	METAL GLAZE	10	5%	1/10W	
L301 L302 L303 L338	1-410-868-11 1-410-868-11 1-408-406-00 1-408-409-00 1-408-425-00	INDUCTOR INDUCTOR INDUCTOR INDUCTOR	4.7UH 4.7UH 5.6UH 10UH				R344 R346 R347		METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 1.5K 10K	5% 5% 5%	1/4W 1/10W 1/8W 1/10W	
			220UH				R349 R350	1-216-045-00 1-216-045-00	METAL GLAZE	680 680	5% 5%	1/10W 1/10W	
L1302	1-408-419-00		68UH				R351 R356 R358	1-216-033-00 1-216-069-00 1-216-033-00	METAL GLAZE	680 680 220 6.8K 220	5% 5% 5%	1/10W 1/10W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>R359</td><td>1-216-089-00</td><td>METAL GLAZE</td><td>47¥</td><td>57</td><td>1/10W</td><td></td></tra<>	NSISTOR>					R359	1-216-089-00	METAL GLAZE	47¥	57	1/10W	
Q301 Q303 Q305 Q311 Q312	<pre></pre>	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR DT TRANSISTOR 2S TRANSISTOR 2S	C1623-L C1623-L A144EK C1623-L C1623-L	.5L6 .5L6 .5L6 .5L6			R360 R361 R363 R364	1-216-089-00 1-216-057-00 1-216-055-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 2.2K 1.8K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q313	8-729-120-28	TRANSISTOR 2S	C1623-L	.516			R365 R366	1-216-047-00 1-216-059-00	METAL GLAZE	820 2.7K	5% 5%	1/10W 1/10W	
Q316 Q330 Q332 Q333	8-729-120-28 8-729-216-22 8-729-216-22 8-729-216-22	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C1623-L A1162-G A1162-G A1162-G	.5L6			R367 R372 R376	1-216-033-00 1-216-023-00 1-249-429-11	METAL GLAZE CARBON	220 82 10K	5% 5%	1/10W 1/10W 1/4W	
Q 334	8-729-120-28	TRANSISTOR 2S	C1623-L	.5L6			R377 R378	1-216-043-00 1-216-097-00	METAL GLAZE	560 100 K	5% 5%	1/10\ 1/10\	
Q381 Q382 Q1301	8-729-216-22 8-729-120-28 8-729-901-00 8-729-120-28 8-729-901-00 8-729-120-28	TRANSISTOR DT TRANSISTOR 2S TRANSISTOR DT	C124EK C1623-L C124EK	5L6			R379 R380 R381	1-216-089-00 1-216-071-00 1-216-093-00	METAL GLAZE METAL GLAZE	560 100K 47K 8.2K 68K	5% 5% 5%	1/10W 1/10W 1/10W	
Q1300	0-129-120-20	IMMISISIUM 23	C1025-L	500			R382 R383	1-216-103-00 1-216-115-00	METAL GLAZE	180K	5% 5%	1/10W 1/10W	
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td>R385 R387</td><td>1-216-085-00 1-216-049-00</td><td>METAL GLAZE</td><td>180K 560K 33K 1K 1K</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></res<>	ISTOR>					R385 R387	1-216-085-00 1-216-049-00	METAL GLAZE	180K 560K 33K 1K 1K	5% 5%	1/10W 1/10W	
JR385 JR387	1-216-296-00	METAL GLAZE	0	5% 1.	/8W /10W		R388	1-216-049-00	METAL GLAZE	îK	5%	1/10W	
JR390 R301 R302	1-216-296-00 1-216-295-00 1-216-295-00 1-249-409-11 1-249-409-11	METAL GLAZE CARBON CARBON	0 220 220	5% 1, 5% 1, 5% 1,	/10W /4W /4W		R389 R390 R392	1-216-101-00 1-216-033-00 1-216-019-00	METAL GLAZE METAL GLAZE	150K 220 56	52	1/10W 1/10W 1/10W	
R303	1-249-409-11				/4W		R394	1-216-019-00 1-216-019-00	METAL GLAZE	56 56 56	5% 5% 5%	1/10W 1/10W	
R304 R305 R306 R307	1-249-409-11 1-216-057-00 1-216-057-00 1-216-097-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE	220 220 2.2K 2.2K 100K	5% 1, 5% 1, 5% 1,	/4W /10W /10W /10W		R395 R396 R397	1-216-214-00 1-216-041-00 1-216-066-00 1-216-081-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 470 5.1K 22K 47K	5% 5% 5%	1/8W 1/10W 1/10W	
R308	1-216-296-00 1-216-025-00				/8W		R398 R399	1-216-081-00	METAL GLAZE	47K	5%	1/10W 1/10W	
R310 R311 R312	1-216-025-00 1-216-025-00 1-216-025-00 1-249-409-11	METAL GLAZE METAL GLAZE METAL GLAZE CARBON	100 100 100 220	5% 1.	/10W /10W /10W /4W		R401 R402 R403 R404		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5K 1.2K 100 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R313 R314	1-216-081-00 1-216-182-00	METAL GLAZE METAL GLAZE	22K 220	5% 1,	/10W /8W		R405	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R315 R316 R317	1-216-031-00 1-216-031-00 1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE	180 180 180	5% 1. 5% 1.	/10W /10W /10W		R406 R407 R410 R412	1-216-061-00 1-216-047-00 1-216-184-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 820 270 1.5K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W	
R318 R319	1-249-429-11 1-249-409-11	CARBON CARBON	10K 220		/4W /4W		R1301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R320 R321 R322	1-216-198-00 1-216-057-00 1-216-055-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 2.2K 1.8K	5% 1.	/8W /10W /10W		R1308	1-216-295-00		0	5%	1/10W	
R328	1-216-009-00	METAL GLAZE			/10W				STAL>				
R329 R330 R331	1-216-009-00 1-216-009-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	22 22 22 10	5% 1. 5% 1. 5% 1.	/10W /10W /10W		X332		OSCILLATOR, C		*****	******	:*****
R332	1-216-184-00	METAL GLAZE	270 1M		/8W /10W			1-63 8-390-11	F BOARD				
R333 R334 R335	1-216-121-00 1-216-073-00 1-247-852-11	METAL GLAZE METAL GLAZE CARBON	10K 7.5K	5% 1.	/10W /10W /4W		1 1	•4-341-752-01					







REF.NO. PART NO.	DESCRIPTION	REMA	IARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
<ca< td=""><td>PACITOR></td><td></td><td>1 </td><td>R107 R110 R111 R117</td><td>1-216-295-00 1-249-429-11 1-216-057-00 1-216-295-00</td><td>CARBON</td><td>0 5% 10K 5% 2.2K 5% 0 5%</td><td>1/10W 1/4W 1/10W 1/10W</td><td></td></ca<>	PACITOR>		1 	R107 R110 R111 R117	1-216-295-00 1-249-429-11 1-216-057-00 1-216-295-00	CARBON	0 5% 10K 5% 2.2K 5% 0 5%	1/10W 1/4W 1/10W 1/10W	
	PIN, CONNECTOR (PC BOARD PIN, CONNECTOR (PC BOARD SE>			R118 R158 R159 R159	1-216-085-00 1-249-409-11 1-249-409-11 1-216-073-00	CARBON CARBON	33K 5% 220 5% 220 5% 10K 5%	1/10W 1/4W 1/4W 1/10W	
F1601A. 1-532-504-31	FUSE 4A/250Y HOLDER, FUSE; F1601				<tun< td=""><td></td><td></td><td></td><td></td></tun<>				
				TU101 <u>/</u> 1	. 1-465-515-11		4PLL)		
	ITCH> SWITCH, PUSH (AC POWER)				<if< td=""><td>BLOCK></td><td></td><td></td><td></td></if<>	BLOCK>			
	*****************	:********	****	VIF101	1-464-961-21	IF BLOCK (IF	G-395)		
A-1632-037-A	A BOARD, COMPLETE			*****	******	******	********	******	*******
					*A-1638-011-A	C BOARD, COM	PLETE *****		
A11 *1-565-393-11	NNECTOR> CONNECTOR, BOARD TO BOAR CONNECTOR, BOARD TO BOAR	RD RD			*4-379-160-01 *4-379-167-01	COVER (REAR COVER (MAIN)	LID), CV , CV		
454	DACITOD.				<con< td=""><td>NECTOR></td><td></td><td></td><td></td></con<>	NECTOR>			
C101 1-126-233-11 C102 1-126-103-11 C104 1-124-910-11 C106 1-126-233-11	ELECT 470MF ELECT 47MF ELECT 22MF	20% 50V 20% 16V 20% 50V 20% 50V		C72 C81	*1-506-371-00 *1-568-881-51 *1-568-878-51 *1-508-765-00	PIN, CONNECTO	OR 6P Or 3P	CH) 3P	
C108 1-136-165-00		5% 50V			<cap< td=""><td>ACITOR></td><td></td><td></td><td></td></cap<>	ACITOR>			
C177 1-102-074-00 C182 1-163-061-00	METAL GLAZE 0 5% CERAMIC 0.001MF CERAMIC CHIP 0.015MF	1/10W 10% 50V 10% 50V		C703 C704 C705 C706	1-102-822-00 1-102-116-00 1-102-820-00 1-102-116-00	CERAMIC CERAMIC CERAMIC	390PF 680PF 330PF 680PF 680PF	5% 10% 5% 10% 10%	50V 50V 50V 2KV
	`			: 1707	1-162-116-00				•
<10 1003 8-759-979-62				C707	1-162-116-00 1-162-114-00		0.0047MF		2KV
10103 8-759-979-62	IC PCF8574			C708 C709 C710	1-162-114-00 1-102-116-00 1-123-947-00	CERAMIC CERAMIC ELECT	0.0047MF 680PF 10MF	10%	50V 250V
1C103 8-759-979-62	IC PCF8574 IL>			C708 C709	1-162-114-00 1-102-116-00	CERAMIC CERAMIC ELECT CERAMIC	680PF	10%	50 V
C00 L100 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH			C708 C709 C710 C711 C712 C714 C716 C717 C718	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00	CERAMIC CERAMIC ELECT CERAMIC CERAMIC ELECT CERAMIC CERAMIC CERAMIC CERAMIC	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V
C103 8-759-979-62 C00 L100 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH ANSISTOR>			C708 C709 C710 C711 C712 C714 C716 C717	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00	CERAMIC CERAMIC ELECT CERAMIC CERAMIC ELECT CERAMIC CERAMIC CERAMIC CERAMIC	680PF 10MF 47PF 330PF 1000MF 330PF 470PF	10% 20% 5% 5% 20% 10%	50V 250V 50V 50V 16V 400V 50V
IC103 8-759-979-62 <co 1-408-225-00="" 1-408-413-00="" 1-410-683-31="" 8-729-900-89<="" <tr="" l100="" l101="" l102="" q125="" td=""><td>IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH</td><td></td><td></td><td>C708 C709 C710 C711 C712 C714 C716 C717 C718</td><td>1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 <dio< td=""><td>CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC</td><td>680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF</td><td>10% 20% 5% 5% 20% 10% 10%</td><td>50V 250V 50V 50V 16V 400V 50V 50V</td></dio<></td></co>	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH			C708 C709 C710 C711 C712 C714 C716 C717 C718	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 <dio< td=""><td>CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC</td><td>680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF</td><td>10% 20% 5% 5% 20% 10% 10%</td><td>50V 250V 50V 50V 16V 400V 50V 50V</td></dio<>	CERAMIC	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V
C103 8-759-979-62 C0 L100 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00 CTR Q125 8-729-900-89 Q126 8-729-901-06	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH ANSISTOR> TRANSISTOR DTC144ES			C708 C709 C710 C711 C712 C714 C716 C717 C718 C719	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 	CERAMIC DE> DIODE RD9.1E DIODE 1SS119	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V
C103 8-759-979-62 C00 L100 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00 CTR Q125 8-729-900-89 Q126 8-729-901-06 CRE JR230 1-216-295-00	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH ANSISTOR> TRANSISTOR DTC144ES TRANSISTOR DTA144EX SISTOR> METAL GLAZE 0 52	1/10W		C708 C709 C710 C711 C712 C714 C716 C717 C718 C719 D701 D701 D702 D703 D704	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 <dio 8-719-110-14 8-719-911-19 8-719-911-19 8-719-911-19</dio 	CERAMIC DE> DIODE RD9.1E DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V
C103 8-759-979-62 C00 L100 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00 CTR Q125 8-729-900-89 Q126 8-729-901-06 CRE JR230 1-216-295-00 JR253 1-216-296-00 JR253 1-216-296-00 JR255 1-216-296-00	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH ANSISTOR> TRANSISTOR DTC144ES TRANSISTOR DTA144EK SISTOR> METAL GLAZE 0 52	1/8₩ 1/8₩ 1/8₩		C708 C709 C710 C711 C712 C714 C716 C717 C718 C719 D701 D702 D703 D704 D705	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 -102-114-00 8-719-110-14 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	CERAMIC DE> DIODE RD9.1E DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V
COULTON 8-759-979-62 COULTON 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00 CTR Q125 8-729-900-89 Q126 8-729-901-06 CRE JR230 1-216-295-00 JR253 1-216-296-00 JR255 1-216-296-00 JR256 1-216-296-00 JR257 1-216-296-00	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH ANSISTOR> TRANSISTOR DTC144ES TRANSISTOR DTA144EX SISTOR> METAL GLAZE 0 5%	1/8W 1/8W 1/8W 1/8W		C708 C709 C710 C711 C712 C714 C716 C717 C718 C719 D701 D702 D703 D704 D705 D706 D707 D708 D709	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 1-102-114-00 8-719-110-14 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	CERAMIC DE> DIODE RD9.1E DIODE 1SS119	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V
C103 8-759-979-62 C00 L100 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00 CTR Q125 8-729-901-06 CRE JR230 1-216-295-00 JR253 1-216-296-00 JR255 1-216-296-00 JR256 1-216-296-00 JR257 1-216-296-00 JR258 1-216-296-00 JR258 1-216-296-00 JR258 1-216-296-00 JR258 1-216-296-00 JR258 1-216-296-00 JR258 1-216-296-00	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH ANSISTOR> TRANSISTOR DTC144ES TRANSISTOR DTA144EX SISTOR> METAL GLAZE 0 5%	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/10W		C708 C709 C710 C711 C712 C714 C716 C717 C718 C719 D701 D702 D703 D704 D705 D706 D707 D708 D707 D708 D709 D710	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 1-102-114-00 8-719-110-14 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	CERAMIC DE> DIODE RD9.1E DIODE 1SS119	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V
COULTON 8-759-979-62 COULTON 1-410-683-31 L101 1-408-225-00 L102 1-408-413-00 CTR Q125 8-729-900-89 Q126 8-729-901-06 CRE JR230 1-216-295-00 JR253 1-216-296-00 JR255 1-216-296-00 JR256 1-216-296-00 JR257 1-216-296-00 JR258 1-216-296-00 JR258 1-216-296-00	IC PCF8574 IL> INDUCTOR 560UH INDUCTOR 3.3UH INDUCTOR 22UH ANSISTOR> TRANSISTOR DTC144ES TRANSISTOR DTA144EK SISTOR> METAL GLAZE 0 5% METAL GLAZE 100 5%	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W		C708 C709 C710 C711 C712 C714 C716 C717 C718 C719 D701 D702 D703 D704 D705 D706 D707 D708 D709	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-820-00 1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00 1-102-114-00 8-719-110-14 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	CERAMIC DE> DIODE RD9.1E DIODE 1SS119	680PF 10MF 47PF 330PF 1000MF 330PF 470PF 470PF 470PF	10% 20% 5% 5% 20% 10% 10%	50V 250V 50V 50V 16V 400V 50V 50V





	. PART NO. DESCRIPTION					REM	IARK	REF.N	D. PART NO.	DESCRIPTIO	N -		REMARK
	<ja< td=""><td>ick></td><td></td><td></td><td></td><td></td><td></td><td>****</td><td>**********</td><td>********</td><td>******</td><td>******</td><td>*******</td></ja<>	ick>						****	**********	********	******	******	*******
J701	1-526-990-11	SOCKET, PIC	TURE TUB	3				† 		D BOARD, CO	MPLETE		
	<00	IL>							*4-341-751-01				
L704	1-410-878-11	INDUCTOR	33UH					; ; ;	*4-341-752-01				
	<tr< td=""><td>ANSISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td><c0< td=""><td>NNECTOR></td><td></td><td></td><td></td></c0<></td></tr<>	ANSISTOR>							<c0< td=""><td>NNECTOR></td><td></td><td></td><td></td></c0<>	NNECTOR>			
Q702 Q703 Q704 Q705 Q706	8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-906-70	TRANSISTOR E TRANSISTOR 2 TRANSISTOR 2	3F871 2SA1091-(2SC2785-1	0				D1 D2 D11 D12 D21	*1-568-881-51 *1-568-882-51 *1-565-394-11 *1-565-394-11 *1-565-394-11	PIN, CONNEC PIN, BOARD PIN, BOARD	TOR 7P TO BOARD CON TO BOARD CON	INECTOR	
Q707 Q708 Q709 Q710	8-729-200-17 8-729-119-78 8-729-906-70 8-729-200-17	TRANSISTOR 2	SC2785-1 SF871	HFE				D22 D31 D32 D33 D41	*1-565-394-11 *1-565-394-11 *1-565-394-11 *1-565-394-11 *1-566-367-11	PIN, BOARD PIN, BOARD PIN, BOARD	TO BOARD CON TO BOARD CON TO BOARD CON	INECTOR INECTOR INECTOR	
	<re:< td=""><td>SISTOR></td><td></td><td></td><td></td><td></td><td></td><td>D44 D45</td><td>*1-568-881-51 *1-568-881-51</td><td></td><td>TOR 6P</td><td></td><td></td></re:<>	SISTOR>						D44 D45	*1-568-881-51 *1-568-881-51		TOR 6P		
R704 R705 R706		METAL OXIDE SOLID	8.2K 3.3K 220	10%	3W 1/2W 1/4W	F		D51 D62 D65	*1-566-367-11 *1-565-395-11 *1-508-765-00	CONNECTOR,	HINGE (RECEP TOR 3P	·	
R707 R708	1-249-412-11 1-249-401-11	CARBON	390 47	5% 5% 5%	1/4W 1/4W			D66 D82 D83	*1-508-786-00 *1-508-765-00 *1-508-786-00	PIN, CONNECT PIN, CONNECT	TOR (SMM PIT	CH) 3P	
R709 R710 R711	1-202-844-00 1-215-465-00 1-249-426-11	SOLID METAL CARBON	330K 68K 5.6K	12	1/2W 1/4W 1/4W		1	D84	*1-568-536-11 *1-508-765-00	PLUG (MINIA)	TURE DY) 6P		
R712 R713	1-249-417-11 1-215-471-00	CARBON METAL	5.6K 1K 120K	5% 1%	1/4W 1/4W		 		<caf< td=""><td>PACITOR></td><td></td><td></td><td></td></caf<>	PACITOR>			
R714 R715 R716 R717 R718	1-216-486-00 1-202-824-00 1-249-409-11 1-249-415-11 1-202-814-11	METAL OXIDE SOLID CARBON CARBON SOLID	3.3K 220 680	5% 10% 5% 5% 10%	3W 1/2W 1/4W 1/4W 1/2W	F		C002 C003 C004 C005 C008	1-163-205-00 1-124-925-11 1-124-120-11 1-124-903-11 1-163-117-00	ELECT ELECT ELECT	2.2MF 220MF 1MF	5% 20% 20% 20% 5%	50V 50V 16V 50V 50V
R719 R720 R721 R722 R723	1-249-401-11 1-249-423-11 1-202-842-11 1-202-848-00 1-249-417-11	CARBON CARBON SOLID SOLID CARBON	47 3.3K 220K 680K 1K	5% 5% 10% 10% 5%	1/4W 1/4W 1/2W 1/2W 1/4W			C009 C010 C011 C013 C014	1-163-117-00 1-124-120-11 1-164-232-11 1-137-098-11 1-137-098-11	ELECT CERAMIC CHIE FILM	220MF	5% 20% 10% 10%	50 Y 16 Y 50 Y 100 Y 100 Y
R724 R725 R726 R727 R728	1-202-846-00 1-202-838-00 1-202-824-00 1-249-409-11 1-216-347-11	SOLID SOLID SOLID CARBON METAL OXIDE	3.3K	10%	1/2W 1/2W 1/2W 1/4W 1W	F		C015 C016 C017 C018 C019	1-124-902-00 1-163-141-00 1-137-098-11 1-163-127-00 1-137-094-11	ELECT CERAMIC CHIF FILM CERAMIC CHIF FILM	0.1MF	20% 5% 10% 5% 10%	50V 50V 100V 50V 100V
R729 R730 R731 R732 R733	1-249-416-11 1-249-401-11 1-249-423-11 1-249-415-11 1-249-415-11	CARBON CARBON CARBON CARBON CARBON	820 47 3.3K 680 680	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W			C021 C023 C024 C027 C030	1-163-117-00 1-163-117-00 1-163-117-00 1-124-910-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	100PF 100PF 47MF	5% 5% 5% 20%	50V 50V 50V 50V 25V
R734 R735 R736 R737 R739	1-249-405-11 1-215-493-00 1-216-486-00 1-215-491-00 1-249-417-11	CARBON METAL METAL OXIDE METAL CARBON	8.2K 820K	5% 1% 5% 1% 5%	1/4W 1/4W 3W 1/4W 1/4W	F		C031 C032 C033 C034 C251	1-163-081-00 1-163-081-00 1-163-181-00 1-163-038-00 1-124-903-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.22MF 100PF	5% 20%	25V 25V 50V 25V 50V
	<var< td=""><td>IABLE RESISTOR</td><td>8></td><td></td><td></td><td></td><td></td><td>C252 C253</td><td>1-126-233-11 1-163-009-11</td><td>ELECT CERAMIC CHIP</td><td>22MF</td><td>20% 10%</td><td>50V 50V</td></var<>	IABLE RESISTOR	8>					C252 C253	1-126-233-11 1-163-009-11	ELECT CERAMIC CHIP	22MF	20% 10%	50V 50V
RV701 RV702 RV703	1-230-641-11	RES, ADJ, MET RES, ADJ, MET	AL GLAZI	E 110	M M			C254 C255 C265	1-137-098-11 1-124-636-00 1-124-564-11	FILM ELECT ELECT	0. 1MF 3300MF 4700MF	10% 10% 20% 20%	100V 25V 25V
RV704		RES, ADJ, CAR RES, ADJ, CAR	BON 2200	Ď				C274 C501	1-137-035-11 1-124-927-11	FILM ELECT	0.47MF 4.7MF	10% 20%	100V 50V

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.



REF. NO. PART NO.	DESCRIPTION		REMARK	REF.NO. PA		DESCRIPTION			REMARK
C502 1-124-927-11 C503 1-137-049-11 C504 1-163-121-00 C505 1-108-794-11 C506 1-137-102-11	FILM 0.015MF CERAMIC CHIP 150PF MYLAR 0.0015MF	20% 10% 5% 5% 10%	50V 400V 50V 50V 250V	C801 1- C802 1- C804 1-	126-105-11 102-030-00 123-948-00	CERAMIC ELECT	100PF 1000MF 330PF 22MF 0.0047MF	5% 20% 10% 20%	50V 35V 500V 250V 2KV
C507 1-137-033-11 C508 1-137-102-11 C509 1-137-098-11 C510 1-161-959-00 C511 1-108-686-11	FILM 0.022MF FILM 0.1MF CERAMIC 22PF	10% 10% 10% 10% 10%	100V 250V 100V 500V 100V	C806 1- C807 1- C810 1- C811 1-	106-395-00 123-024-21 136-113-00 124-634-11	ELECT FILM	0.15MF 0.15MF 33MF 2MF 1MF	10% 10% 5% 20%	200V 160V 200V 200V 250V
C512 1-137-098-11 C513 1-163-125-00 C514 1-137-031-11 C515 1-124-903-11 C516 1-108-680-11	CERAMIC CHIP 220PF FILM 0.22MF ELECT 1MF MYLAR 0.001MF	10% 5% 10% 20% 10%	100V 50V 100V 50V 100V	C813 1- C814 A. 1- C815 1- C817 A 1- C818 A 1-	102-212-00 161-731-51 136-111-00 136-565-11 129-721-51	CERAMIC CERAMIC FILM FILM FILM	820PF 0.001MF 1MF 0.015MF 0.039MF	10% 10% 5% 3% 10%	500V 2KV 200V 1.4KV 630V
C517 1-124-252-00 C518 1-124-902-00 C519 1-136-173-00 C520 1-164-161-11 C521 1-137-098-11	ELECT 0.47MF FILM 0.47MF CERAMIC CHIP 0.0022MF FILM 0.1MF	20% 20% 5% 10% 10%	50V 50V 50V 50V 100V	C820 ♠ 1- C821 ♠.1- C822 1- C823 1-	137-043-11	FILM CERAMIC CERAMIC CHIP FILM	0.0047MF	10% 10% 10% 10% 10%	2KV 400V 2KV 50V 400V
C522 1-124-122-11 C523 1-108-680-11 C524 1-108-798-11 C525 1-163-117-00 C526 1-163-103-00	MYLAR 0.001MF MYLAR 0.0033MF CERAMIC CHIP 100PF CERAMIC CHIP 27PF	20% 10% 5% 5% 5%	50V 100V 50V 50V 50V	C824 1- C825 1- C1602A 1- C1605A 1- C1607A 1-	102-212-00 137-102-11 136-516-11 164-246-51 161-964-61	FILM FILM CERAMIC	820PF 0.022MF 0.1MF 0.0022MF 0.0047MF	10% 10% 20% 20%	500V 250V 300V 400V 250V
C527 1-137-098-11 C531 1-124-190-00 C532 1-124-122-11 C533 1-137-096-11 C534 1-124-122-11	ELECT 680MF ELECT 100MF	10% 10% 20% 10% 20%	100V 25V 50V 100V 50V	CF001 1-	<fil<sup>* 577-364-11</fil<sup>				
C536 1-131-365-00 C537 1-124-903-11 C538 1-108-680-11 C539 1-163-129-00	ELECT 1MF MYLAR 0.001MF CERAMIC CHIP 330PF	10% 20% 10% 5%	16V 50V 100V 50V	i i i i i i	<d101< td=""><td>DE></td><td></td><td></td><td></td></d101<>	DE>			
C592 1-124-122-11 C593 1-163-129-00 C601 <u>A</u> .1-161-964-61 C602 <u>A</u> .1-161-964-61	CERAMIC CHIP 330PF CERAMIC 0.0047MF CERAMIC 0.0047MF	10% 20% 5%	50V 50V 50V 250V 250V	D005 8-7 D006 8-7 D007 8-7 D009 8-7	719-109-89 719-982-24 719-982-08 719-109-89	DIODE 1SS119 DIODE RD5.6ES DIODE MTZJ-33 DIODE MTZJ-3. DIODE RD5.6ES	BA . 9B S-B2		
C607 1-137-028-11	ELECT (BLOCK) 220MF ELECT 220MF CERAMIC CHIP 680PF FILM 1MF	20% 20% 5% 10%	250V 400V 35V 50V 63V	D011 8-7 D012 8-7 D013 8-7 D271 8-7	719-921-54 719-911-19 719-109-97 719-110-31	DIODE MTZJ-6. DIODE MTZJ-6. DIODE 1SS119 DIODE RD6.8ES DIODE RD12ES-	. 28 5-82		
C608 1-124-927-11 C611 1-124-910-11 C612 1-108-680-11 C613 1-136-539-11 C614 1-102-030-00	ELECT 4.7MF ELECT 47MF MYLAR 0.001MF FILM 0.0022MF CERAMIC 330PF	20% 20% 10% 3% 10%	50V 50V 100V 2KV 500V	D501 8-1 D504 8-1 D506 8-1	719-911-19 719-911-55 719-800-76	DIODE 1SS119 DIODE 1SS119 DIODE UO5G DIODE 1SS226 DIODE 1SS119			
C615 1-128-142-11 C616 1-102-030-00 C617 1-124-122-11 C618 1-162-115-00 C619 1-124-556-11	ELECT 1500MF CERAMIC 330PF ELECT 100MF CERAMIC 330PF ELECT 2200MF	20% 10% 20% 10% 20%	25V 500V 50V 2KV 16V	D511 8-7 D512 8-7 D513 8-7	719-911-55 719-911-55 719-010-34	DIODE 1SS119 DIODE UOSG DIODE UOSG DIODE UZ-4.7E DIODE D4SB60L			
C620	FILM 0.47MF ELECT 100MF ELECT 2200MF ELECT 47MF ELECT 100MF	5% 20% 20% 20% 20%	160V 16V 50V 50V	D603 8-7 D604 8-7 D605 8-7	719-911-55 719-911-55 719-911-55	DIODE RU-3AM DIODE UO5G DIODE UO5G DIODE UO5G DIODE RU-3AM			
C625	ELECT 1000MF ELECT 10MF CERAMIC CHIP 0.001MF ELECT 4.7MF CERAMIC CHIP 0.001MF	20% 20% 10% 20% 10%	50V 50V 50V 50V	D608 8-7 D609 8-7 D610 8-7	719-300-33 719-982-24 719-300-59	DIODE RU-3AM DIODE RU-3AM DIODE MTZJ-33 DIODE CTU-12S DIODE ERD29-0	5		



The components identified by shading and mark $ilde{\Delta}$ are critical for safety.
Replace only with part number specified.

REF.N	O. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
D612 D613 D614 D616 D617	8-719-979-85 8-719-979-85 8-719-921-54	DIODE CTU-12S DIODE EGP20G DIODE EGP20G DIODE MTZJ-6.2B DIODE ISS119		PS602A	. 1-532-984-91 . 1-532-984-91	LINK> LINK, IC (ICP LINK, IC (ICP	-N50) 2A	
D618 D619 D620 D621 D622	8-719-982-24 8-719-800-76 8-719-982-24	DIODE RD5.6ES-B2 DIODE MTZJ-33A DIODE ISS226 DIODE MTZJ-33A DIODE ISS119		PS604A	.1-532-984-91 <tra< td=""><td>LINK, IC (ICP- LINK, IC (ICP- NSISTOR></td><td>-N50) 2A</td><td></td></tra<>	LINK, IC (ICP- LINK, IC (ICP- NSISTOR>	-N50) 2A	
D623 D624 D630 D801 D802	8-719-911-19 8-719-921-91 8-719-300-33	DIODE 1SS119 DIODE 1SS119 DIODE MTZJ-15A DIODE RU-3AM DIODE RU-3AM		Q001 Q002 Q003 Q004 Q005	8-729-901-01 8-729-216-22 8-729-216-22 8-729-901-01	TRANSISTOR DT TRANSISTOR DT TRANSISTOR 2S TRANSISTOR DT	C144EK A1162-G A1162-G C144EK	
D803 D804 D805 D806 D807	8-719-911-55 8-719-911-55 8-719-945-80	DIODE RGP02-17 DIODE U05G DIODE U05G DIODE ERC06-15S DIODE ERC06-15S		Q006 Q007 Q008 Q009 Q010	8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR DT TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C1623-L5L6 C1623-L5L6 C1623-L5L6 C1623-L5L6	
D808		DIODE ERD29-08J		Q251 Q271 Q502 Q505 Q506	8-729-120-28 8-729-216-22 8-729-140-96	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C1623-L5L6 A1162-G D774-34	
1 C 0 0 1 C 0 0	2 8-759-208-06 3 8-759-945-58 5 8-759-748-56 1 8-759-988-94	IC RC4558P IC SDA2546 IC TDA2050		i	8-729-216-22 8-729-122-03	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S SPRING; Q602	A1162-G A1220A-P	
1 C50 1 C50	4-200-001-01 4-201-023-01 4-812-134-00 1 8-759-970-73 2 8-759-944-57			Q603 Q604 Q605 Q606 Q607	8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2S. TRANSISTOR 2S. TRANSISTOR 2S. TRANSISTOR 2S. TRANSISTOR 2S.	A1162-G C1623-L5L6 C1623-L5L6	
I C60	4-200-001-01 1 8-759-988-95 4 8-759-510-52 8 8-759-929-62 *4-368-683-01	HOLDER, IC; IC502		Q608 Q609 Q801 Q804	8-729-320-62 8-729-120-28	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S SPRING; Q804	D789-34 C1623-L5L6	
	<001	L>		Q805	8-729-119-80	TRANSISTOR 2S	C2688-LK	
L501 L601	* 1-420-872-00	INDUCTOR 3.3UH COIL, AIR CORE				ISTOR>	0 59	1 /011
L602 L603 L604	1-410-396-41 1-410-671-31	FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 47UH		JR1 JR3 JR4 JR7	1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5% 470 5%	1/8W 1/8W 1/10W 1/8W 1/10W
L605 L606 L607 L803 L804	1-421-013-00 1-410-671-31 1-459-104-00	COIL (WITH CORE) (DRUM TYPE) COIL (HORIZONTAL CHOKE) 25UH INDUCTOR 47UH COIL, DUST CORE INDUCTOR 4.7MMH		R001 R002 R003 R004 R005	1-216-041-00 1-216-198-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 1K 5% 1K 5%	1/10W 1/8W 1/10W 1/10W
L805 L806 L809 L810	1-459-111-00 *1-420-872-00	COIL, HORIZONTAL LINEARITY COIL, DRAM CORE (CDI) COIL, AIR CORE PMC		R006 R007 R008 R009	1-216-073-00 1-216-065-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 5% 10K 5% 4.7K 5% 10K 5% 10K 5% 470 5% 10K 5%	1/10W 1/10W 1/10W 1/10W
	<tra< td=""><td>NSFORMER></td><td></td><td>R010 R012</td><td>1-216-041-00 1-216-073-00</td><td>METAL GLAZE METAL GLAZE</td><td>470 5% 10K 5%</td><td>1/10W 1/10W</td></tra<>	NSFORMER>		R010 R012	1-216-041-00 1-216-073-00	METAL GLAZE METAL GLAZE	470 5% 10K 5%	1/10W 1/10W
T601 T602 T801	01A. 1-421-862-11 A. 1-450-038-11 A. 1-424-277-11 A. 1-437-090-21 A. 1-439-416-51	S.R.T TRANSFORMER, TRIGGER PULSE HDT	.650)	R013 R014 R015 R016 R017	1-216-073-00 1-216-085-00 1-216-061-00 1-216-085-00 1-216-748-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 33K 5% 3.3K 5% 33K 5% 39K 5%	1/10W 1/10W 1/10W 1/10W 1/10W



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R018 1-216-095-00 R019 1-216-025-00 R020 1-216-025-00 R021 1-216-065-00 R022 1-216-065-00	METAL GLAZE 82K METAL GLAZE 100 METAL GLAZE 100 METAL GLAZE 4.7 METAL GLAZE 4.7	(5% 1/10W 0 5% 1/10W 0 5% 1/10W 7K 5% 1/10W 7K 5% 1/10W		R085 R086 R087 R088 R093	1-216-049-00 1-216-049-00 1-216-035-00 1-216-059-00 1-216-073-00	METAL GLAZE METAL GLAZE	1K 5X 270 5X 2.7K 5X 10K 5X	1/10W 1/10W 1/10W
R024 1-216-073-00 R025 1-216-073-00 R026 1-216-182-00 R027 1-216-025-00 R028 1-216-025-00	METAL GLAZE 10K METAL GLAZE 220 METAL GLAZE 100	7 5% 1/10W 5% 1/8W 5% 1/10W 5% 1/10W		R094 R095 R096 R098 R251	1-216-073-00 1-216-073-00 1-216-073-00 1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 57 10K 57 10K 57 10K 57 1K 57 4.7K 57 390 57	1/10W 1/10W
R029 1-216-073-00 R030 1-216-073-00 R031 1-216-081-00 R032 1-216-073-00 R033 1-216-073-00	METAL GLAZE 10M METAL GLAZE 22M METAL GLAZE 10M METAL GLAZE 10M	K 5% 1/10W K 5% 1/10W K 5% 1/10W K 5% 1/10W		R252 R253 R254	1-216-039-00 1-216-073-00 1-216-357-00 1-216-073-00 1-216-115-00	METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	390 52 10K 52 4.7 52 10K 52 560K 52 15K 52	
R034 1-216-077-00 R035 1-216-081-00 R036 1-216-083-00 R037 1-216-069-00 R038 1-216-069-00	METAL GLAZE 15M METAL GLAZE 22M METAL GLAZE 27M METAL GLAZE 6.8 METAL GLAZE 6.8	(5% 1/10W (5% 1/10W (5% 1/10W 3K 5% 1/10W		R257 R258 R259 R268 R271	1-216-077-00 1-215-869-11 1-216-065-00 1-215-869-11 1-216-045-00	METAL GLAZE METAL OXIDE METAL GLAZE	1K 57 4.7K 57 1K 57 680 57	1W F 1/10W 1W F 1/10W
R039 1-216-081-00 R040 1-216-077-00 R041 1-216-073-00 R042 1-216-049-00 R043 1-216-041-00	METAL GLAZE 15K METAL GLAZE 10K METAL GLAZE 1K METAL GLAZE 470	6 5% 1/10W 6 5% 1/10W 5% 1/10W 0 5% 1/10W		R272 R273 R274 R500 R501		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 10K 5% 10K 5% 560K 5% 470 5%	(1/10W (1/10W (1/10W (1/10W (1/10W
R044 1-216-097-00 R045 1-216-061-00 R046 1-216-095-00 R047 1-216-073-00 R048 1-216-073-00		DK 5% 1/10W BK 5% 1/10W C 5% 1/10W C 5% 1/10W		R502 R503 R504 R505 R506		METAL GLAZE CARBON METAL GLAZE METAL GLAZE	270 57 1.8K 57 15K 57 8.2K 57	1/10W 1/10W 1/4W
R049 1-216-073-00 R050 1-216-067-00 R051 1-216-041-00 R052 1-216-049-00 R053 1-216-049-00	METAL GLAZE 10W METAL GLAZE 5.6 METAL GLAZE 470 METAL GLAZE 1K METAL GLAZE 1K			R509 R510 R514 R515 R517	1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 57 220 57 3.3K 57	/ 1/10W / 1/10W / 1/10W / 1/10W
R054 1-216-049-00 R055 1-216-037-00 R056 1-216-073-00 R057 1-216-025-00 R058 1-216-049-00	METAL GLAZE 33G METAL GLAZE 10K METAL GLAZE 10C METAL GLAZE 1K	0 5% 1/10W 6 5% 1/10W 5% 1/10W 5% 1/10W		R518 R519 R520 R521 R522	1-216-089-00 1-216-081-00 1-216-037-00 1-216-025-00 1-215-469-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL	47K 57 22K 57 330 57 100 57 100K 17 1K 57	
R061 1-216-065-00 R062 1-216-049-00 R063 1-216-049-00	METAL GLAZE 4.7 METAL GLAZE 1K METAL GLAZE 1K	7K 5% 1/10W 5% 1/10W 5% 1/10W		R523 R524 R525 R526 R527	1-216-049-00 1-216-057-00 1-216-049-00 1-249-409-11 1-216-077-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE	2.2K 57 1K 57 220 57 15K 57	1/10W 1/10W
R064 1-216-049-00 R065 1-216-049-00 R066 1-216-049-00 R067 1-216-073-00 R068 1-216-174-00	METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 10K METAL GLAZE 10C) 5% 1/8W		R528 R529 R530 R531 R532	1-216-031-00 1-216-069-00 1-249-448-11 1-216-099-00 1-216-049-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	6.8K 57 1.2 57 120K 57 1K 57	/ 1/10W / 1/4W F / 1/10W
R069 1-216-174-00 R070 1-216-198-00 R071 1-216-198-00 R072 1-216-222-00 R073 1-216-073-00	METAL GLAZE 10C METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 10K METAL GLAZE 10K	5% 1/8W 5% 1/8W 6 5% 1/8W 6 5% 1/10W		R533 R534 R535 R536 R537	1-216-295-00 1-216-119-00 1-249-749-00 1-216-129-00 1-216-083-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	820K 55 2.2M 55 2.2M 55 2.7K 55	% 1/10W % 1/4W % 1/10W % 1/10W
R075 1-216-041-00 R076 1-216-073-00 R077 1-216-049-00 R078 1-216-198-00 R079 1-216-073-00	METAL GLAZE 10M METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 10M	5% 1/10W 5% 1/10W 5% 1/8W 5% 1/10W		R538 R539 R540 R541 R541	1-216-101-00 1-216-101-00 1-216-013-00 1-216-091-00 1-216-308-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 57 150K 57 33 57 56K 57 4.7 57	/ 1/10W / 1/10W / 1/10W / 1/10W
R080 1-216-073-00 R081 1-216-073-00 R083 1-216-049-00 R084 1-216-049-00	METAL GLAZE 1K	(5% 1/10W		R543 R544 R545	1-249-451-11 1-247-745-11 1-216-081-00	CARBON CARBON METAL GLAZE	2.2 55 330 55 22K 55	1/49





The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

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REF.NO. PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
R546 1-216-083-0 R547 1-216-061-0 R548 1-216-349-0 R549 1-216-454-1 R550 1-216-095-0	O METAL OXIDE 1 1 METAL OXIDE 390	5%	1/10W 1/10W 1W F 2W F 1/10W	R816 R817 R820 R821 R822	1-215-868-00 1-216-049-00 1-249-403-11 1-247-725-11 1-217-778-11	METAL GLAZE	680 1K 68 10K 1K	5% 5% 5% 5% 5%	1W 1/10W 1/4W 1/4W 1W	
R551 1-216-129-0 R553 1-215-869-1 R554 1-216-037-0 R555 1-216-129-0 R556 1-216-025-0	1 METAL OXIDE 1K O METAL GLAZE 330 O METAL GLAZE 2.2 O METAL GLAZE 100	5% 5% 5% 5%	1/10W 1W 1/10W 1/10W 1/10W	R825 R826 R827 R828 R829	1-216-345-11 1-216-097-00 1-216-073-00 1-216-059-00 1-216-051-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0.47	52 52 52 52 52	1W 1/10W 1/10W 1/10W 1/10W	F
R557 1-216-065-0 R558 1-216-113-0 R559 1-216-069-0 R560 1-216-037-0 R591 1-216-047-0		X 5% X 5% X 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	R831 R1602A R1603A R1605A R5501	1-249-451-11 1-244-945-91 1-217-328-11 1-218-265-91 1-216-073-00	CARBON CARBON WIREWOUND METAL GLAZE METAL GLAZE	2.2 1M 2.7 8.2M 10K	5% 10% 5% 5%	1/4W 1/2W 7W 1W 1/10W	F
R592 1-216-049-00 R593 1-216-053-00 R594 1-216-071-00 R597 1-216-041-00 R598 1-215-900-1	O METAL GLAZE 1K O METAL GLAZE 1.5 O METAL GLAZE 8.2 O METAL GLAZE 470 I METAL OXIDE 22K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 2W F	R5504	1-216-308-00 1-216-121-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7 1M 10	5% 5% 5%	1/10W 1/10W 1/10W	
R600 1-249-381-1 R601 1-216-353-00 R603 1-216-469-1 R604 1-216-025-00 R605 1-216-081-00) METAL OXIDE 2.2 METAL OXIDE 12 METAL GLAZE 100	5% 5% 5% 5%	1/4W 1W F 3W F 1/10W 1/10W	RV502	<pre><var 1-238-011-11<="" 1-238-013-11="" 1-238-016-11="" pre=""></var></pre>	RES, ADJ, CAR	RBON 2.1	K		
R606 1-216-051-06 R607 1-216-065-06 R608 1-216-488-13 R609 1-216-007-06 R610 1-244-941-06	I METAL GLAZE 18	5% 5% 5% 5% 5%	1/10W 1/10W 3W F 1/10W 1/2W	SG801	<spa 1-519-422-11</spa 	RK GAP>				
R611 1-216-015-00 R612 1-216-049-00 R613 1-216-097-00 R614 1-205-758-11 R616 1-216-099-00	METAL GLAZE 1K METAL GLAZE 100N WIREWOUND 100	5% 5% 5% 10% 5%	1/10W 1/10W 1/10W 10W F 1/10W		<the 1-808-059-32 </the 				******	******
R617 1-216-037-00 R618 1-216-431-11 R619 1-216-073-00 R620 1-216-081-00 R621 1-216-077-00	METAL OXIDE 560 METAL GLAZE 10K METAL GLAZE 22K	5% 5% 5% 5% 5%	1/10W 1W F 1/10W 1/10W 1/10W			V BOARD, COMP ************************************				
R622 1-216-073-00 R623 1-216-081-00 R624 1-216-067-00 R625 1-215-865-11 R626 1-216-037-00	METAL OXIDE 220	5% 5% 5% 5% 5%	1 / 1 0 6 1	C2	1-124-120-11	CERAMIC CHIP ELECT CERAMIC CHIP	220MF	7		16V 25V 16V 50V 16V
R628 1-216-001-00 R629 1-216-037-00 R633 1-216-049-00 R634 1-216-430-11 R635 1-216-073-00	METAL GLAZE 330 METAL GLAZE 1K METAL OXIDE 390	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1W F 1/10W	C6 C7 C8 C9 C10	1-163-038-00 1-163-235-11 1-163-235-11 1-163-235-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 22PF 22PF		5% 5% 5%	25V 50V 50V 50V 25V
R636 1-216-073-00 R637 1-215-863-11 R643 1-217-189-21 R651 1-216-025-00 R653 1-205-758-11	METAL OXIDE 100 WIREWOUND 0.12 METAL GLAZE 100	5% 5% 5% 10%	1/10W 1W F 2W F 1/10W 10W F	C11 C12 C13 C14 C15	1-163-038-00 1-163-038-00 1-163-038-00 1-124-927-11 1-124-927-11		0.1MF		20%	25¥ 25¥ 25¥ 50¥ 50¥
R802 1-249-443-11 R805 1-249-448-11 R806 1-216-093-00 R807 1-215-869-11 R809 1-202-821-11	CARBON 1.2 METAL GLAZE 68K METAL OXIDE 1K	5% 5% 5%	1/4W F 1/4W F 1/10W 1W F 1/2W	C16 C17 C18 C26 C27	1-163-141-00 1-163-141-00 1-163-141-00 1-163-038-00 1-163-117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.001MF 0.001MF 0.1MF		5%	50 V 50 V 50 V 25 V 50 V
R810 1-202-818-00 R811 1-215-882-00 R812 1-249-494-11 R815 1-215-884-11	METAL OXIDE 22 CARBON 68K	10% 5% 5% 5%	1/2W 2W F 1/2W 2W F	C28 C29 C32 C33	1-163-117-00 1-163-117-00 1-163-038-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	100PF 0.1MF		5%	50 V 50 V 25 V 25 V



REF.NO.	PART NO.	DESCRIPTION	REMAR	K REF. NO	D. PART NO.	DESCRIPTION			REMARK
	< CON	INECTOR>			1-216-295-00 2 1-216-296-00		0	5% 1/10 5% 1/8W	
CNV1 CNV2	*1-565-393-11 *1-565- 393-1 1	CONNECTOR, BOARD TO BOARD CONNECTOR, BOARD TO BOARD		JR219	1 1-216-295-00 5 1-216-295-00 6 1-216-295-00 7 1-216-295-00 8 1-216-295-00	METAL GLAZE	0 0 0 0	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W W
	<010	DDE>		i					
D1 D3 D4 D5 D6	8-719-914-44	DIODE RD5.6M-B2 DIODE DAP2O2K DIODE MA152WK DIODE DAP2O2K DIODE MA152WK		R1 R2 R3 R4	1-218-326-11 1-216-214-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 1/10 5% 1/2W 5% 1/8W 5% 1/10 5% 1/10	W
D7 D9		DIODE RD3.6M-B2 DIODE RD6.8M-B2		R5 R6 R7 R8	1-216-047-00 1-216-001-00 1-216-083-00 1-216-071-00 1-216-308-00	METAL GLAZE METAL GLAZE METAL GLAZE	820 10 27K 8.2K 4.7	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W
	<1C>	•		R10	1-218-325-11				
101 102 103	8-759-510-46	IC MAB8461P-W208 IC SAA5246P/E IC FCB61C65-70P		R11 R12 R13 R14	1-218-325-11 1-218-325-11 1-216-025-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	120 120 100 100	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/10 5% 1/10	W
	<c01< td=""><td>L></td><td></td><td>R15</td><td>1-216-013-00 1-216-013-00</td><td>METAL GLAZE</td><td>33 33</td><td>5% 1/10 5% 1/10</td><td></td></c01<>	L>		R15	1-216-013-00 1-216-013-00	METAL GLAZE	33 33	5% 1/10 5% 1/10	
L1 L2 L3 L4	1-408-403-00 1-408-407-00 1-408-407-00 1-408-407-00	INDUCTOR 6.8UH INDUCTOR 6.8UH		i	1-216-013-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	-	5% 1/10 5% 1/10 5% 1/10	W W
	.1.0	LINUS		R20 R21	1-216-041-00 1-216-041-00	METAL GLAZE	470 470	5% 1/10 5% 1/10	₩
PS1 🛦	. 1-532-679-91	LINK> LINK, IC (ICP-N15) 0.6A		R22 R23 R24	1-216-168-00 1-216-214-00 1-216-055-00	METAL GLAZE	470 470 56 4.7K 1.8K	5% 1/8W 5% 1/8W 5% 1/10	
				1 225	1-216-065-00 1-216-049-00	METAL GLAZE	4.7K 1K	5% 1/10 5% 1/10	W W
Q1 Q2 Q3	8-729-900-53 8-729-920-92 8-729-120-28	TRANSISTOR DTC114EK TRANSISTOR 2SD2096-EF TRANSISTOR 2SC1623-L5L6		R29 R30 R31	1-216-121-00 1-216-061-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE	*1M 3.3K 6.8K	5% 1/10 5% 1/10 5% 1/10	W W
Q4 Q5	8-729-120-28 8-729-807-87	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SB1295-UL6		R32	1-216-076-00 1-216-083-00 1-216-065-00	METAL GLAZE	13K 27K	5% 1/10 5% 1/10 5% 1/10	W
Q6 Q7 Q8	8-729-807-87 8-729-807-87 8-729-120-28	TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SC1623-L5L6			1-216-065-00 1-216-057-00	METAL GLAZE METAL GLAZE	13K 27K 4.7K 4.7K 2.2K		W
	<res< td=""><td>ISTOR></td><td>ŧ</td><td>R37 R38 R39 R40</td><td>1-216-057-00 1-216-057-00 1-216-057-00 1-216-065-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>2.2K 2.2K 2.2K 4.7K</td><td>5% 1/10¹ 5% 1/10¹ 5% 1/10¹ 5% 1/10¹ 5% 1/10¹</td><td>u u</td></res<>	ISTOR>	ŧ	R37 R38 R39 R40	1-216-057-00 1-216-057-00 1-216-057-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 2.2K 4.7K	5% 1/10 ¹	u u
JR01 JR02	1-216-295- 00 1-216-295- 00	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W	R41	1-216-065-00	METAL GLAZE	4.7K	5% 1/10	
JRO3 JRO8 JRO9	1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W	R42 R44 R46 R47	1-216-049-00 1-216-061-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 3.3K 4.7K 4.7K	5% 1/10 5% 1/10 5% 1/10 5% 1/10 5% 1/10	W W
JR11 JR14	1-216-295-00 1-216-296-00	METAL GLAZE 0 5%	1/10W 1/8W	R48	1-216-065-00	METAL GLAZE			
JR17 JR18 JR21	1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE 0 5%	1/10W 1/8W 1/8W	R49 R50	1-216-049-00 1-216-296-00	METAL GLAZE METAL GLAZE	1K 0	5% 1/10 5% 1/8W	•
JR23 JR24	1-216-295-00 1-216-296-00	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/8W		<var< td=""><td>IABLE RESISTOR</td><td>></td><td></td><td></td></var<>	IABLE RESISTOR	>		
JR25 JR202	1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5%	1/8W 1/10W	RV1	1-238-012-11	RES, ADJ, CAR	BON 1K		
JR203 JR205	1-216-295-00		1/10W 1/10W		<cry< td=""><td>STAL></td><td></td><td></td><td></td></cry<>	STAL>			
JR206 JR209	1-216-295-00 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W	X1 X3	1-579-266-21 1-577-082-11	CRYSTAL VIBRA VIBRATOR, CER			

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H 1	11 2	J1

REF.NO. PART NO.	DESCRIPTIO	N -		REMARK	REF.NO.	PART NO.	DESCRIPTION	l -		REMARK
******* *1-638-391-11	**************************************	********	******	******	י רכיי	1-108-686-11 1-137-095-11 1-137-095-11 1-137-047-11	FILM FILM FILM	0.056MF 0.056MF 0.01MF	10% 10% 10% 10%	100V 100V 100V 400V
*1-638-391-11 <co td="" ="" <=""><td>NNECTOR></td><td>TOR 6P</td><td></td><td></td><td>C225 C226 C227 C228 C229</td><td>1-136-173-00 1-136-173-00 1-137-102-11 1-137-104-11 1-137-049-11</td><td>FILM FILM FILM FILM FILM</td><td>0.47MF 0.47MF 0.022MF 0.033MF 0.015MF</td><td>5% 5% 10% 10%</td><td>50V 50V 250V 250V 400V</td></co>	NNECTOR>	TOR 6P			C225 C226 C227 C228 C229	1-136-173-00 1-136-173-00 1-137-102-11 1-137-104-11 1-137-049-11	FILM FILM FILM FILM FILM	0.47MF 0.47MF 0.022MF 0.033MF 0.015MF	5% 5% 10% 10%	50V 50V 250V 250V 400V
H1-2 1-565-640-11 H1-3 1-565-639-11 H1-4 *1-568-879-51 H1-05 1-562-837-11	JACK, PIN 1 JACK, PIN 1 PIN, CONNEC JACK	P P TOR 4P			C230 C232 C234 C235 C237	1-137-049-11 1-124-907-11 1-163-005-11 1-163-005-11	FILM ELECT CERAMIC CHIP CERAMIC CHIP	0.015MF 10MF 470PF 470PF	10% 20%	400V 50V 50V 50V
H1-23 *1-568-879-51 H1-43 *1-564-512-11	PIN, CONNEC PLUG, CONNE	TOR 4P CTOR 9P			C237 C238 C239 C241	1-163-125-00	CERAMIC CHIP	220PF	5%	50V 50V 16V 50V
R1651 1-249-405-11	CARBON	100 5%	1/4W		C245	1-163-033-00	CERAMIC CHIP	0.022MF		50V 50V
R1652 1-249-405-11	CARBON ITCH>	100 5%	1/4₩		C1407 C1408 C1409 C1410	1-124-910-11 1-124-122-11 1-126-233-11 1-124-907-11	ELECT ELECT ELECT ELECT	47MF 100MF 22MF 10MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 50V
<pre></pre>	SWITCH, TAC SWITCH, TAC SWITCH, TAC	TIL TIL TIL	******	*****	C1415 C1416 C1417	1-124-902-00 1-124-902-00 1-124-120-11 1-163-003-11	ELECT ELECT ELECT	0.47MF 0.47MF 220MF	20% 20% 20% 20% 10%	50V 50V 16V 50V
*1-638-392-11	H2 ROARD				C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50 Y
*4-374-987-01 *4-381-686-01	GUIDE, LIGHT BRACKET (B)	r , light guid	E		C1425 C1427 C1428 C1431 C1432	1-124-902-00 1-136-017-00 1-136-017-00 1-126-529-11 1-124-902-00	ELECT CERAMIC CHIP CERAMIC CHIP ELECT ELECT	0.47MF 0.0047MF 0.0047MF 0.47MF 0.47MF	20% 20%	50V 50V 50V 50V 50V
<010	DDE>				C1433	1-124-122-11	ELECT	100MF	20% 10%	50V 400V
<dic D1654 8-719-948-31 *4-387-825-01</dic 	DIODE LD-201 HOLDER, LED;	LVR : D1654								50V 50V 100V
H2-2 *1-564-522-11		CTOR 7P			01502	1-124-910-11 1-102-824-00 1-124-927-11 1-124-903-11 1-108-680-11	ELECT	47MF 470PF 4.7MF 1MF 0.001MF	20% 5% 20% 20% 10%	50V 50V 50V 50V 100V
<1C> IC1651 8-741-101-75		1				1-124-910-11 1-137-094-11	ELECT Film	47MF 0.047MF	20% 10%	50V 100V
		11			C1507 C1508	1-108-686-11 1-124-903-11	MYLAR ELECT	0.0033MF 1MF	10% 20%	100V 50V
<res R1662 1-249-413-11</res 	SISTOR>	470 5%	1/4W			1-124-903-11 1-124-927-11	ELECT	1MF 4.7MF	20% 20%	50Y 50Y
*****************				******	C1512	1-137-045-11 1-163-105-00	FILM	0.0068MF	10% 5%	400V 50V
A-1651-021-A	Ji BOARD, CO			i 1 1 1	C1514	1-137-102-11 1-102-117-00	FILM	0.022MF 820PF	10%	250V 50V
<cap< td=""><td>ACITOR></td><td></td><td></td><td>1</td><td></td><td><010</td><td>DE></td><td></td><td></td><td></td></cap<>	ACITOR>			1		<010	DE>			
C207 1-124-927-11 C213 1-126-233-11 C214 1-137-045-11 C218 1-137-102-11	ELECT ELECT FILM FILM	4.7MF 22MF 0.0068MF 0.022MF	20% 10% 10%	50V 50V 400V 250V	D1407 D1408 D1419	8-719-110-03 8-719-921-77 8-719-110-14 8-719-110-03 8-719-110-03	DIODE MTZN-10	DC 5-83 5-82		
C219 1-137-102-11 C220 1-108-686-11		0.022MF 0.0033MF		250V 100V	D1422 D1424	8-719-110-03 8-719-110-03	DIODE RD7.5ES	5-82 5-82		

	. PART NO.					REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
D1425 D1501 D1502 D1503	8-719-110-03 8-719-300-33 8-719-911-19 8-719-911-19	DIODE RD7.5E DIODE RU-3AM DIODE 1SS119 DIODE 1SS119	S-B2				R240 R242 R245	1-216-033-00 1-216-091-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE			1/10W 1/10W 1/10W	
D1504 D1505 D1506 D1507	8-719-110-03 8-719-300-33 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE ISSI19 DIODE ISSI19 DIODE MTZJ-3 DIODE ISSI19	6D				R246 R249 R250 R1415 R1417	1-216-067-00 1-216-075-00 1-216-067-00 1-216-083-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 12K 5.6K 27K 82	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
10201	8-719-911-19 <1C> 8-759-013-17	IC TDA6200					R1418 R1420 R1421 R1422	1-247-738-11 1-216-295-00 1-216-295-00 1-216-025-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	82 0 0 100 278	5% 5% 5% 5%	1/2W F 1/10W 1/10W 1/10W 1/10W	
1C140 1C140 1C140 1C150	8-759-013-17 1 8-752-053-17 2 8-759-946-32 3 8-759-040-53 1 8-759-942-16	IC CXA1114P IC TEA2014A IC MC14053BC IC TEA2031A	P				R1424 R1425 R1426 R1427	1-216-083-00 1-216-045-00 1-216-025-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27K 680 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
	<jac< td=""><td>:K></td><td></td><td></td><td></td><td></td><td>R1428</td><td>1-216-113-00</td><td></td><td>470K</td><td></td><td>1/10W</td><td></td></jac<>	:K>					R1428	1-216-113-00		470K		1/10W	
J1402	1-561-534-41	SOCKET 21P					R1429 R1430 R1433 R1434	1-216-113-00 1-216-170-00 1-216-033-00 1-249-393-11	METAL GLAZE METAL GLAZE CARBON	470K 68 220 10 27K	5% 5%	1/10W 1/8W 1/10W 1/4W F 1/4W	
J1-41		CONNECTOR H	INGF (T	AR) 18	ξ P		R1440	1-216-045-00	METAL GLATE	680		1/10W	
J1-43 J1-44 J1-51	*1-566-641-11 *1-564-524-11 *1-564-527-11 *1-566-641-11	PLUG, CONNECT PLUG, CONNECT CONNECTOR, H	TOR 9P FOR 12P INGE (T	AB) 18	3P		R1441 R1442 R1443 R1445	1-216-045-00 1-216-089-00 1-216-089-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 47K 47K 82K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>R1447</td><td>1-216-033-00</td><td>METAL GLAZE</td><td>220 100</td><td>5%</td><td>1/10W</td><td></td></tra<>	NSISTOR>					R1447	1-216-033-00	METAL GLAZE	220 100	5%	1/10W	
Q202 Q1402 Q1403	<tra 8-729-120-28="" 8-729-216-22<="" td=""><td>TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25</td><td>C1623- C1623- C1623-</td><td>L5L6 L5L6 L5L6</td><td></td><td></td><td>R1448 R1449 R1452 R1453</td><td>1-216-025-00 1-216-023-00 1-216-049-00 1-216-049-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>100 82 1K 1K</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></tra>	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	C1623- C1623- C1623-	L5L6 L5L6 L5L6			R1448 R1449 R1452 R1453	1-216-025-00 1-216-023-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 82 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
41101	0 127 210 22	THINDIDION E	701102	u			R1454 R1455	1-216-180-00 1-216-180-00	METAL GLAZE	180 180	5% 5%	1/8W 1/8W	
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td>R1457 R1459</td><td>1-216-025-00</td><td>METAL GLAZE METAL GLAZE</td><td>100</td><td>5%</td><td>1/10W 1/10W</td><td></td></res<>	ISTOR>					R1457 R1459	1-216-025-00	METAL GLAZE METAL GLAZE	100	5%	1/10W 1/10W	
JR1 JR2 JR3 JR4	<pre></pre>	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1460 R1461 R1462	1-216-053-00 1-216-190-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 1.5K 470 2.2K		1/10W 1/8W 1/10W 1/10W 1/10W	
										1 K 3.3 K	5% 5%	1/10W 1/10W	
R205 R206 R207	1-216-085-00 1-216-061-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 3.3K	5%	1/10W 1/10W 1/10W		R1467	1-216-033-00 1-216-025-00	METAL GLAZE	220 100		1/10W 1/10W	
R208 R210	1-216-077-00 1-216-077-00	METAL GLAZE METAL GLAZE	15K 15K	5% 5% 5%	1/10W 1/10W		R1468	1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5% 5% 5% 5%	1/10W 1/10W	
R211	1-216-097-00	METAL GLAZE	100K	5%	1/10W		R1471 R1472	1-216-023-00 1-216-023-00	METAL GLAZE METAL GLAZE	82 82	5% 5%	1/10W 1/10W	
R212 R213	1-216-081-00 1-216-077-00	METAL GLAZE METAL GLAZE	22K 15K	5% 5% 5%	1/10W 1/10W			1-216-023-00	METAL GLAZE	82 470K	5% 5%	1/10W 1/10W	
R215 R216	1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE	22K 22K	5%	1/10W 1/10W		R1474 R1476 R1477	1-216-113-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R217 R218	1-216-077-00 1-216-033-00	METAL GLAZE METAL GLAZE	15K 220	5% 5%	1/10W 1/10W		R1478	1-216-113-00	METAL GLAZE	470K		1/10W	
R219 R220	1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE	10K 2.2K	5% 5% 5%	1/10W 1/10W		R1480 R1484	1-216-190-00 1-216-073-00	METAL GLAZE METAL GLAZE	470 10K	5% 5%	1/8W 1/10W	
R221 R222	1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE	470 470		1/10W 1/10W		R1486	1-216-073-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 4.7K	57 57 57 57	1/10W 1/10W 1/10W	
R225 R227	1-216-049-00 1-216-033-00	METAL GLAZE METAL GLAZE	1K 220	5% 5% 5%	1/10W 1/10W		R1488	1-216-065-00	METAL GLAZE	4.7K		1/10W	
R228 R229	1-216-033-00 1-216-075-00	METAL GLAZE METAL GLAZE	220 12K	5% 5% 5%	1/10W 1/10W		R1489 R1501	1-216-065-00 1-216-081-00	METAL GLAZE METAL GLAZE	4.7K 22K	5% 5% 5% 5%	1/10W 1/10W	
R230 R234	1-216-079-00 1-216-057-00		18K 2.2K	5% 5%	1/10W 1/10W	,	R1503	1-216-083-00 1-216-113-00	METAL GLAZE METAL GLAZE	27K 470K	5% 5%	1/10W 1/10W	
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The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

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	REF.NO.	PART NO.	DESCRIPTION		REMARK
	R1504 R1505 R1506 R1509 R1510	1-216-085-00 1-216-081-00 1-216-113-00 1-216-105-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 5% 1/10W 22K 5% 1/10W 170K 5% 1/10W 22OK 5% 1/10W 5.6K 5% 1/10W	
	R1511 R1512 R1513 R1514 R1515	1-216-049-00 1-216-073-00 1-216-091-00 1-216-049-00 1-216-117-00	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 6	1K 5% 1/10W 10K 5% 1/10W 56K 5% 1/10W 1K 5% 1/10W 580K 5% 1/10W)
	R1520	1-216-079-00 1-216-033-00 1-216-101-00 1-216-113-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 1/10W 150K 5% 1/10W 170K 5% 1/10W	
	R1556	1-216-067-00	METAL GLAZE	5.6K 5% 1/10k	ì
		<var< td=""><td>IABLE RESISTOR></td><td></td><td></td></var<>	IABLE RESISTOR>		
	RV1502 RV1503 RV1504	1-238-016-11		DN 10K DN 22K DN 1K	
	RV1507 RV1508	1-238-017-11 1-238-009-11 1-238-016-11 1-238-023-11		ON 220 ON 10K	
	*****	***********	**********	************	*******
		ZIM	CELLANEOUS		

MISCELLANEOUS

Δ. 1-451-311-21 DEFLECTION YOKE (Y25FXA)
1-452-032-00 MAGNET, DISK; 10MM φ
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM φ
Δ. 1-460-091-11 COIL DEGAUSS
1-503-258-21 SPEAKER

Δ.1-590-762-11 CORD, POWER (WITH PLUG)

V901 Δ.8-733-224-05 PICTURE TUBE (Α59JWC60X)

PART NO.

ACCESSORIES AND PACKING MATERIALS

4-200-618-61 *4-200-647-01 *4-200-648-01 *4-200-778-01	MANUAL, INSTRUCTION (ENGLISH CUSHION (UPPER) (ASSY) CUSHION (LOWER) (ASSY) INDIVIDUAL CARTON			
*4-380-340-01	BAG, PROTECTION			

DESCRIPTION

REMOTE COMMANDER

1-465-796-11 CONTROL UNIT, REMOTE (RM-816) 4-031-670-01 COVER, POCKET (FOR RM-816) REMARK